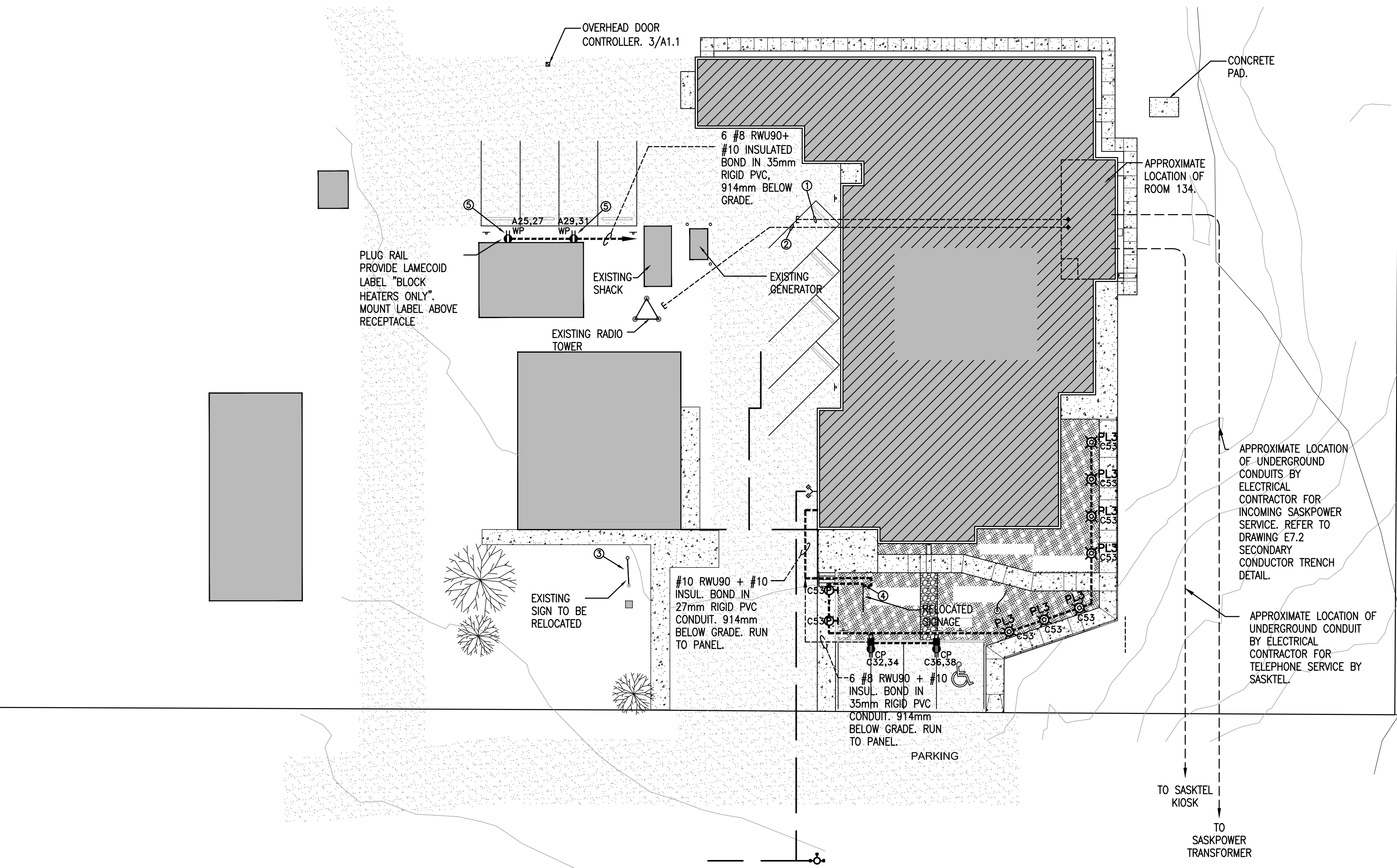


DEMOLITION KEYNOTE

① CONTRACTOR SHALL DISCONNECT AND REMOVE POWER AND TELEPHONE SERVICE TO EXISTING RESIDENCE TO ALLOW FOR DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT SASKPOWER AND SASKTEL AND COORDINATE REMOVAL OF CABLES AND CONDUITS TO ALLOW FOR CONSTRUCTION OF NEW DETACHMENT BUILDING.

DEMOLITION SITE PLAN – ELECTRICAL
E1.1 1:400



- SITE KEYNOTES**
- PROVIDE AN EMPTY 103mm RIGID PVC CONDUIT C/W PULLSTRING, RUN 900mm BELOW GRADE FROM ROOM 134 TO AREA 2 METERS WEST OF BUILDING FOUNDATION FOR SPARE/FUTURE USE. CAP CONDUIT, PROVIDE CONTINUOUS YELLOW CAUTION TAPE AT 500mm BELOW GRADE. INCLUDE DIMENSIONS OF CONDUIT END ON AS BUILT DRAWING.
 - PROVIDE AN EMPTY 103mm RIGID PVC CONDUIT C/W PULLSTRING, RUN 900mm BELOW GRADE FROM ROOM 134 TO EXISTING RADIO TOWER. FOR SPARE/FUTURE USE. CAP CONDUIT, PROVIDE CONTINUOUS YELLOW CAUTION TAPE AT 500mm BELOW GRADE. INCLUDE DIMENSIONS OF CONDUIT END ON AS BUILT DRAWING.
 - DISCONNECT POWER TO EXISTING SIGN TO ALLOW FOR RELOCATION.
 - CONNECT RELOCATED SIGN INTO NEW EXTERIOR LIGHTING CIRCUIT.
 - MOUNT W.P. RECEPTACLES ON EXISTING GARAGE UP 900 ABOVE GRADE.

- GENERAL NOTES:**
- THE CONTRACTOR SHALL LOCATE ALL UNDER GROUND SERVICES PRIOR TO TRENCHING OR BORING FOR NEW UNDER GROUND FEEDERS.
 - ALL UNDER GROUND FEEDERS SHALL BE A MINIMUM OF 914mm BELOW FINISHED GRADE.
 - REFER TO DRAWING E7.2 TRENCH DETAIL FOR UNDER GROUND FEEDERS FROM BUILDING TO TRANSFORMER.
 - REFER TO ARCHITECTURAL DRAWINGS FOR SITE LIGHTING LOCATIONS.

- SYMBOL SCHEDULE**
- Ⓜ JUNCTION BOX/OUTLET BOX.
 - Ⓢ CEILING/WALL SURFACE MOUNTED INCANDESCENT LED OR HIGH INTENSITY DISCHARGE FIXTURE.
 - Ⓡ RECESSED CEILING MOUNTED FIXTURE
 - ▭ FLUORESCENT FIXTURE, SURFACE MOUNTED OR SUSPENDED.
 - ▭ FLUORESCENT FIXTURE, RECESSED.
 - ▭ FLUORESCENT FIXTURE, SURFACE MOUNTED – NON SWITCHED
 - ▭ ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
 - Ⓜ MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
 - Ⓢ COPPCAD GROUND ROD 3045mm LONG X 20mm DIAMETER. CONNECTIONS SHALL BE THERMOWELD OR BURNDY HI-GRND.
 - Ⓢ MOULDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
 - Ⓢ MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF.
 - Ⓢ S.P.S.T. SWITCH MOUNTED UP 1200mm. SUFFIX 'F' FOR FAN CONTROL.
 - Ⓢ THREE-WAY SWITCH MOUNTED UP 1200mm.
 - Ⓢ 3-POSITION LIGHT SWITCH. SWITCH MOUNTED UP 1200mm
 - Ⓢ FOUR-WAY SWITCH MOUNTED UP 1200mm.
 - Ⓢ KEY OPERATED SWITCH MOUNTED UP 1200mm. CONTRACTOR SHALL PROVIDE AND INSTALL AS SPECIFIED. CONTRACTOR SHALL CONFIRM TYPE WITH OWNER'S SECURITY SYSTEM PROVIDER PRIOR TO ORDERING SWITCH.
 - Ⓢ DIMMER SWITCH MOUNTED UP 120mm, DIMMER SHALL BE SIZED ACCORDING TO LOAD AND SUITABLE FOR 'LED'.
 - Ⓢ FIRE ALARM MANUAL PULL STATION MOUNTED UP 1350mm A.F.F.
 - Ⓢ FIRE ALARM SIGNAL DEVICE (HORN/STROBE) SURFACE WALL MOUNTED UP 2290mm A.F.F.
 - Ⓢ PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR.
 - Ⓢ SPRINKLER SYSTEM FLOW SWITCH SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MONITOR MODULE WITH A SEPARATE FIRE ALARM ADDRESS. CONFIRM THE EXACT NUMBER AND LOCATIONS OF DEVICES WITH THE MECHANICAL CONTRACTOR.
 - Ⓢ SPRINKLER SYSTEM TAMPER SWITCH SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MONITOR MODULE AND WIRE AS A FIRE ALARM TROUBLE/SUPERVISORY POINT. CONFIRM EXACT NUMBER AND LOCATIONS OF DEVICES WITH THE MECHANICAL CONTRACTOR.
 - Ⓢ FIRE ALARM CONTROL/RELAY MODULE
 - Ⓢ FIRE ALARM MONITOR MODULE
 - Ⓢ FIRE ALARM SYSTEM COMBINATION TYPE SMOKE DETECTOR CEILING MOUNTED.
 - Ⓢ FIRE ALARM SYSTEM HEAT DETECTOR, COMBINATION 135 DEGREES FIXED TEMP/RATE OF RISE.
 - Ⓢ EMERGENCY LIGHTING UNIT. SEE EMERGENCY LIGHTING SPECIFICATIONS FOR DETAILS.
 - Ⓢ DUPLEX GROUND RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a'– 250mm. ABOVE COUNTER; 'b'– UP 900mm.; 'c'–MOUNTED IN ARCHITECTURAL MILLWORK; 'f' FRIDGE RECEPTACLE UP 450mm; 'HK' 20A RECEPTACLE UP 450mm FOR HOUSE KEEPING; 'm' MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF OR COUNTER. COORDINATE WITH ARCHITECTURE MILLWORK FOR EXACT LOCATION.
 - Ⓢ DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE C/W 'WHILE IN USE' COVER MOUNTED UP 900mm. EQUAL TO HUBBELL BELL 5802-0.
 - Ⓢ DUPLEX GROUND RECEPTACLE, SPLIT WIRED, PROTECTED BY TWO POLE BREAKER AT PANEL. SEE DRAWINGS FOR MOUNTING HEIGHT.
 - Ⓢ DUPLEX GROUND RECEPTACLE MOUNTED IN RECESSED ADJUSTABLE FLUSH FLOOR BOX. REFER TO DRAWING NOTES FOR SPECIFICATIONS.
 - Ⓢ DATA AND A/V OUTLET MOUNTED IN RECESSED ADJUSTABLE FLUSH FLOOR BOX. REFER TO DRAWING NOTES FOR SPECIFICATIONS.
 - Ⓢ DUPLEX GROUND RECEPTACLE, 20 AMP T-SLOT (NEMA 5-20R) MOUNTED UP 450mm.
 - Ⓢ DUPLEX GROUND RECEPTACLE MOUNTED UP 450mm FED FROM EMERGENCY POWER SUPPLY. BODY OF RECEPTACLE SHALL BE IMPREGNATED 'RED' COLOUR.
 - Ⓢ DRYER RECEPTACLE, 30 AMP, 120/208 VOLT, 4 WIRE GROUND RECEPTACLE C/W COVERPLATE.
 - Ⓢ DATA/VOICE OUTLET MOUNTED UP 450 mm. 100 mm. SQUARE BOX C/W SINGLE GANG EXTENSION AND 27 mm CONDUIT. SUFFIX '1D' INDICATES ONE DATA JACK, '1V' INDICATES ONE VOICE JACK. CABLE TYPE SHALL BE TERMINATED AT THE DATA PATCH PANEL AND OUTLET BOX VOICE CABLE TYPE SHALL BE TERMINATED AT THE OUTLET BOX AND BIX BLOCK.
 - Ⓢ OCCUPANCY SENSOR 'OC1', CEILING MOUNTED AS DESCRIBED ON DRAWINGS, AND SPECIFICATIONS.
 - Ⓢ RECESSED SINGLE GANG BOX MOUNTED UP 900mm, FOR POWER DOOR OPERATOR.
 - Ⓢ LED BOLLARD MOUNTED ON CONCRETE BASE. REFER TO DETAIL.
 - Ⓢ DUPLEX GROUND SPLIT WIRED, PROTECTED BY TWO POLES BREAKER AT PANEL, RECEPTACLE OUTLETS MOUNTED IN PEDESTAL. REFER TO DETAIL.
 - Ⓢ WEATHERPROOF 120 VOLT PHOTOCELL TO CONTROL EXTERIOR BUILDING LIGHTING. INTERMATIC 'K' SERIES OR APPROVED EQUAL.

NOTE: SUBSCRIPT 'CLG' DENOTES DEVICE IS CEILING MOUNTED.



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
NUMBER 52

PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL
SASK. REG. No. 9273
SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

Revision/Revisions	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24

Project title/Titre du projet

**NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN**

Approved by/Approve par
SBK

Designed by/Consept par
KAD

Drawn by/Dessine par
KAD

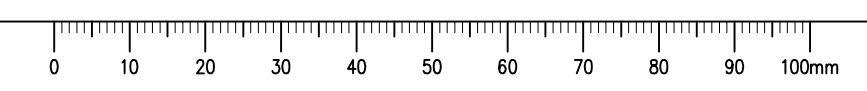
Project Manager/Administrateur de Projets

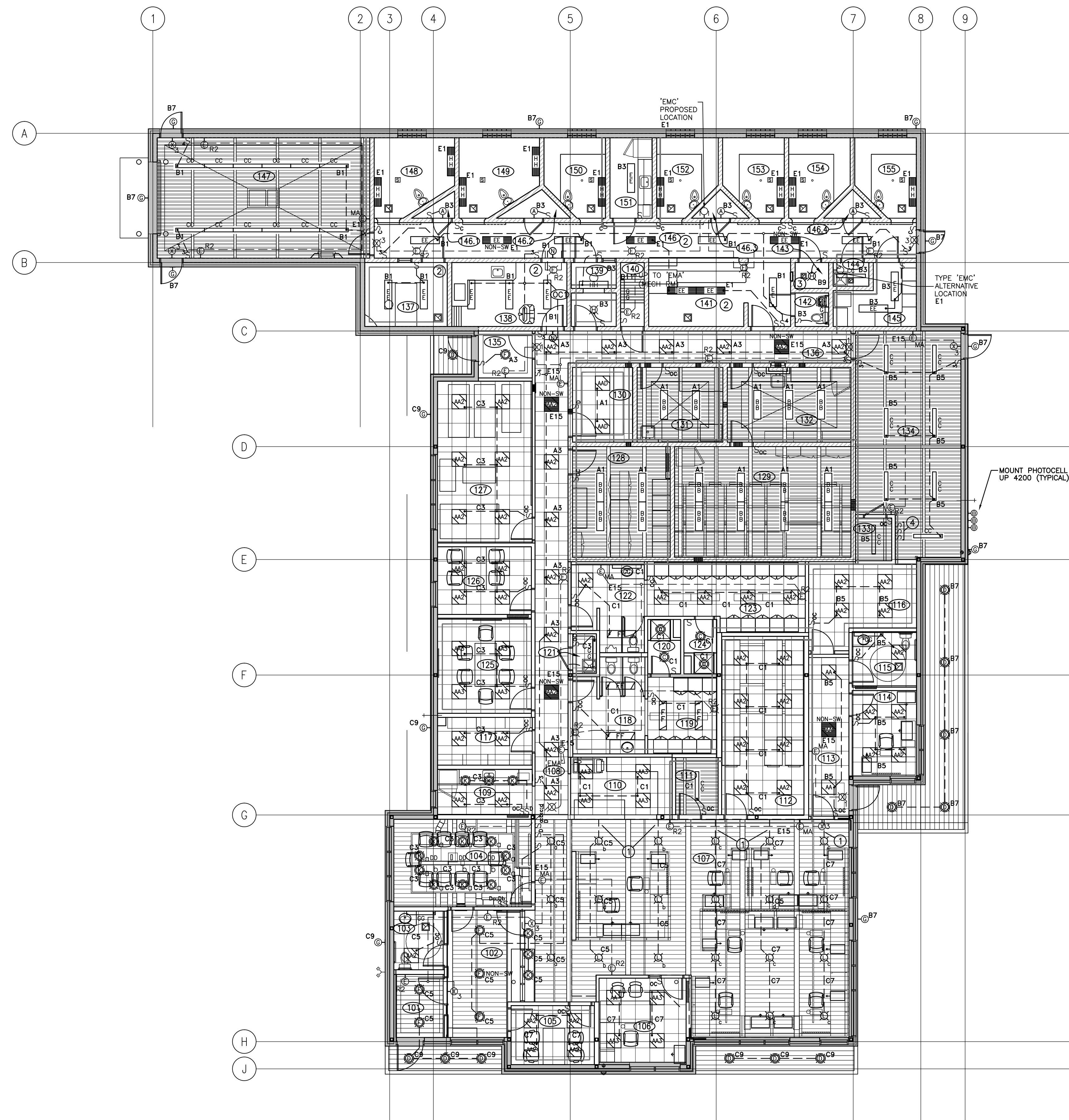
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingenierie

Client/client

SITE PLAN & SYMBOL SCHEDULE

Project No./No. du projet 24/2014	Sheet/Fauille E1.1	Revision no./La Revision no. 0
--------------------------------------	-----------------------	-----------------------------------

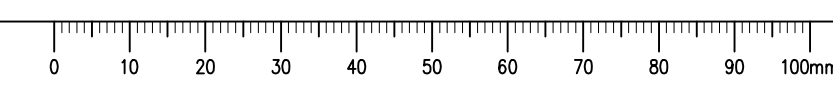




MAIN FLOOR LIGHTING KEYNOTES:

- ① CONDUITS FEEDING LIGHTING IN THE HIGH CEILING IN ROOM 107 SHALL RUN TIGHT TO THE UNDERSIDE OF THE CEILING WOOD DECK STRUCTURE. CONDUITS SHALL RUN FROM NORTH SIDE OF GRID 'G', THROUGH THE JOIST SEAT SPACE ON GRADE 'G' INTO ROOM 107, TIGHT TO THE UNDERSIDE OF THE WOOD DECK, AND PARALLEL TO THE BEAM. ALL CONDUIT RUNS IN EXPOSED AREAS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- ② PROVIDE SAFETY RINGS ON LIGHT SWITCHES IN THE FOLLOWING ROOMS: 137, 138, 141 AND 146.
- ③ FIXTURE SHALL BE ON GFI CCT.
- ④ OVERRIDER SWITCH FOR EXTERIOR LIGHTING CIRCUIT ON PANEL 'B' AND PANEL 'C'.

1 LIGHTING PLAN
E2.1 1:100



SEPW Architecture Inc.
 101 - 3775 Pappas Street, Regina, SK S4S 0R8 ph: (306) 589-2555
 1210 - 1218 Kinross Street, Saskatoon, SK S7N 0A8 ph: (306) 652-9457
 website: www.sepw.ca

Ritenburg & Associates Ltd.
 Consulting Electrical Engineers
 #200-2222 Albert Street, Regina, SK S4P 2V2
 Ph: (306) 569-1303 F: (306) 569-1307
 Email: ral@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
 OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *Steve Kemp*

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24

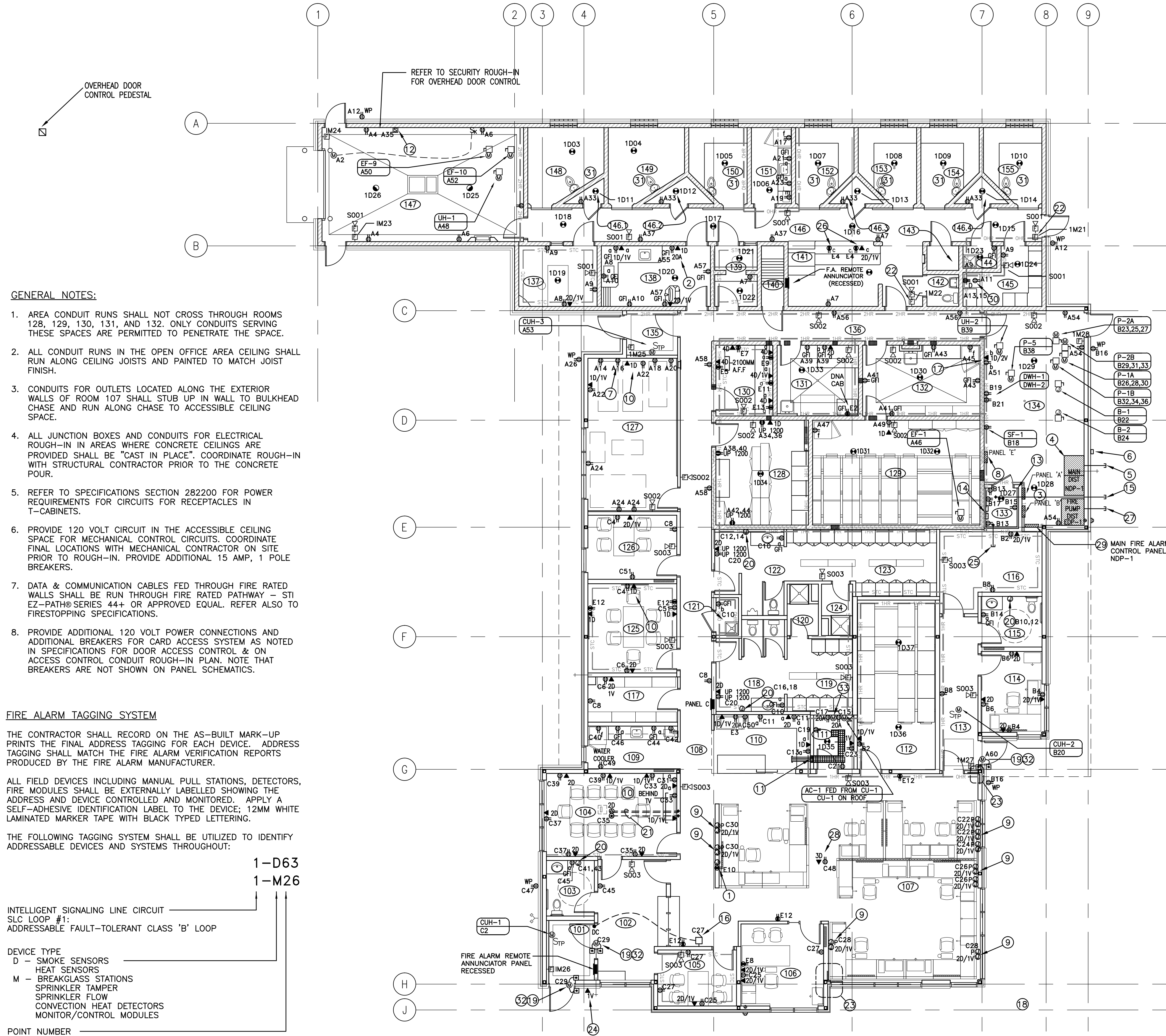
Project title/Titre du projet
**NEW POLICE BUILDING
 UNION LAKE, SASKATCHEWAN**

Approved by/Approve par: SBK
 Designed by/Concept par: KAD
 Drawn by/Dessine par: KAD
 Project Manager/Administrateur de Projets:
 Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingenierie:
 Client/client:

Drawing title/Titre du dessin
**MAIN FLOOR
 LIGHTING PLAN**

Project No./No. du projet 24/2014	Sheet/Fauille E2.1	Revision no./La Revision no. 0
--------------------------------------	-----------------------	-----------------------------------





- GENERAL NOTES:**
1. AREA CONDUIT RUNS SHALL NOT CROSS THROUGH ROOMS 128, 129, 130, 131, AND 132. ONLY CONDUITS SERVING THESE SPACES ARE PERMITTED TO PENETRATE THE SPACE.
 2. ALL CONDUIT RUNS IN THE OPEN OFFICE AREA CEILING SHALL RUN ALONG CEILING JOISTS AND PAINTED TO MATCH JOIST FINISH.
 3. CONDUITS FOR OUTLETS LOCATED ALONG THE EXTERIOR WALLS OF ROOM 107 SHALL STUB UP IN WALL TO BULKHEAD CHASE AND RUN ALONG CHASE TO ACCESSIBLE CEILING SPACE.
 4. ALL JUNCTION BOXES AND CONDUITS FOR ELECTRICAL ROUGH-IN IN AREAS WHERE CONCRETE CEILINGS ARE PROVIDED SHALL BE "CAST IN PLACE". COORDINATE ROUGH-IN WITH STRUCTURAL CONTRACTOR PRIOR TO THE CONCRETE POUR.
 5. REFER TO SPECIFICATIONS SECTION 282200 FOR POWER REQUIREMENTS FOR CIRCUITS FOR RECEPTACLES IN T-CABINETS.
 6. PROVIDE 120 VOLT CIRCUIT IN THE ACCESSIBLE CEILING SPACE FOR MECHANICAL CONTROL CIRCUITS. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL 15 AMP, 1 POLE BREAKERS.
 7. DATA & COMMUNICATION CABLES FED THROUGH FIRE RATED WALLS SHALL BE RUN THROUGH FIRE RATED PATHWAY - STI E2-PATH@SERIES 44+ OR APPROVED EQUAL. REFER ALSO TO FIRESTOPPING SPECIFICATIONS.
 8. PROVIDE ADDITIONAL 120 VOLT POWER CONNECTIONS AND ADDITIONAL BREAKERS FOR CARD ACCESS SYSTEM AS NOTED IN SPECIFICATIONS FOR DOOR ACCESS CONTROL & ON ACCESS CONTROL CONDUIT ROUGH-IN PLAN. NOTE THAT BREAKERS ARE NOT SHOWN ON PANEL SCHEMATICS.

FIRE ALARM TAGGING SYSTEM

THE CONTRACTOR SHALL RECORD ON THE AS-BUILT MARK-UP PRINTS THE FINAL ADDRESS TAGGING FOR EACH DEVICE. ADDRESS TAGGING SHALL MATCH THE FIRE ALARM VERIFICATION REPORTS PRODUCED BY THE FIRE ALARM MANUFACTURER.

ALL FIELD DEVICES INCLUDING MANUAL PULL STATIONS, DETECTORS, FIRE MODULES SHALL BE EXTERNALLY LABELLED SHOWING THE ADDRESS AND DEVICE CONTROLLED AND MONITORED. APPLY A SELF-ADHESIVE IDENTIFICATION LABEL TO THE DEVICE; 12MM WHITE LAMINATED MARKER TAPE WITH BLACK TYPED LETTERING.

THE FOLLOWING TAGGING SYSTEM SHALL BE UTILIZED TO IDENTIFY ADDRESSABLE DEVICES AND SYSTEMS THROUGHOUT:

- 1-D63
 - 1-M26
- INTELLIGENT SIGNALING LINE CIRCUIT
SLC LOOP #1:
ADDRESSABLE FAULT-TOLERANT CLASS 'B' LOOP
- DEVICE TYPE
D - SMOKE SENSORS
HEAT SENSORS
M - BREAKGLASS STATIONS
SPRINKLER TAMPER
SPRINKLER FLOW
CONVECTION HEAT DETECTORS
MONITOR/CONTROL MODULES
- POINT NUMBER

- TAGGING FOR HORN/STROBES AND OTHER AUXILIARY DEVICES POWERED BY THE FIRE ALARM SYSTEM:
- S104
- AUXILIARY POWER SUPPLY FOR STROBE LIGHTS OR MISCELLANEOUS ITEMS (24-VOLT DOOR HOLDERS, 24-VOLT SPRINKLER SOLENOID VALVES)
- FIRE ALARM PANEL NUMBER AS NOTED ABOVE
- POWER SUPPLY NUMBER
0 - POWER SUPPLY LOCATED WITHIN THE PANEL
1,2,3, ECT - REMOTE POWER BOOSTER PANEL NUMBER
- OUTPUT CIRCUIT NUMBER

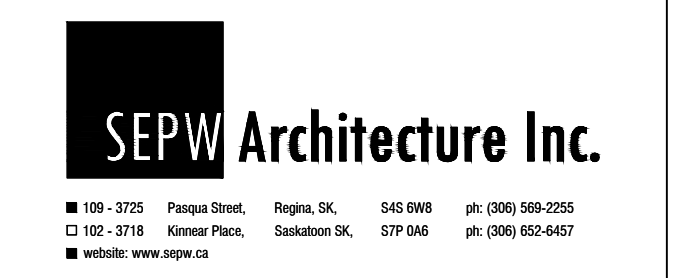
POWER & SYSTEMS PLAN
1:100
NORTH

MAIN FLOOR POWER & SYSTEMS KEYNOTES:

1. PROVIDE 100MM RECESSED SQUARE BOX AND 78MM EMT CONDUIT C/W PULL TWINE FOR RADIO ANTENNA CABLE SUPPLIED AND INSTALLED BY OTHERS. PROVIDE EMERGENCY RECEPTACLE AS SHOWN. REFER ALSO TO ANTENNA DETAIL, DRAWING 7.1.
2. OUTLETS FOR LIVSCAN EQUIPMENT.
3. DISTRIBUTION PANELS 'A' AND 'B' REFER TO PANEL SCHEMATICS.
4. 120/208 VOLT 3Ø MAIN DISTRIBUTION 'NDP1' REFER TO SINGLE LINE DRAWING E6.1.
5. PROVIDE RIGID PVC CONDUIT RUNS FROM DISTRIBUTION 'NDP1' 914MM BELOW FINISHED GRADE TO SASKPOWER TRANSFORMER. REFER TO SINGLE LINE DRAWING E6.1 FOR FEEDER SIZES, AND SITE PLAN FOR ROUTING.
6. PROVIDE AN EXTERIOR RATED RECEPTACLE FOR CONNECTION TO EMERGENCY GENERATOR. MOUNT UP 900MM A.F.G. CONNECT TO EMERGENCY TRANSFER SWITCH PANEL 'E'. REFER TO SINGLE LINE DRAWING E6.1. PROVIDE POWER CABLE WITH MATCHING PLUG AND RECEPTACLE FOR GENERATOR.
7. PROVIDE A DUPLEX RECEPTACLE AT THE SAME HEIGHT AS THE TV RECEPTACLE FOR OWNERS AUDIO EQUIPMENT. COORDINATE WITH EQUIPMENT SHELF. REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
8. PROVIDE EMERGENCY TRANSFER SWITCH PANEL 'E'. REFER TO SINGLE LINE DRAWING E6.1 AND SPECIFICATIONS.
9. PROVIDE JUNCTION BOXES UP 450MM FOR POWER AND DATA CONNECTIONS TO OWNER SUPPLIED SYSTEMS FURNITURE. DATA CABLES SHALL HAVE EXCESS COIL OF THREE METERS TO TERMINATE IN SYSTEM FURNITURE RACEWAY. POWER FEEDS SHALL BE CONNECTED TO THE SYSTEMS FURNITURE POWER WHIP BY THE ELECTRICAL CONTRACTOR. TYPICAL OF ALL WORK STATIONS IN ROOM 107.
10. MOUNT DATA OUTLET AND RECEPTACLE BEHIND T.V. OUT OF VIEW. COORDINATE EXACT LOCATION WITH WALL MOUNTING BRACKET SO DATA IS ON ONE SIDE AND POWER ON OPPOSITE SIDE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATION DRAWINGS.
11. BASKET TYPE CABLE TRAY SHALL STUB INTO THE ACCESSIBLE CEILING SPACE OF THE CORRIDOR WHERE AREA CONDUITS TERMINATE, MAXIMUM OF FIVE LARGE DIAMETER CONDUITS. REFER TO SPECIFICATIONS.
12. PROVIDE 120 VOLT CONNECTION TO CO/NOX SENSOR. COORDINATE FINAL MOUNTING WITH CO/NOX INSTALLER.
13. PROVIDE 19MM PAINTED G1S PLYWOOD ON THREE SIDES OF ROOM 133 FROM FLOOR TO CEILING. REFER TO DETAIL ON DRAWING E7.2.
14. TELEPHONE BIX BLOCKS. REFER TO TELEPHONE DETAIL ON DRAWING E7.2.
15. PROVIDE ONE 103mm PVC TYPE 'DB2' CONDUIT C/W PULL TWINE FROM TELEPHONE ROOM 914mm BELOW GRADE TO SASKTEL KIOSK. REFER TO SITE PLAN DRAWING E1.1.
16. PROVIDE WALL MOUNTED DOOR CHIME MOUNTED UP 2100mm A.F.F. PROVIDE LOW VOLTAGE TRANSFORMER FOR DOOR CHIME, DOOR CONTACT AND A 120 VOLT CONNECTION.
17. DATA OUTLET DEDICATED TO MECHANICAL BUILDING MANAGEMENT SYSTEM.
18. REFER TO SITE PLAN DRAWING 1.1 FOR PEDESTAL LOCATION.
19. PUSH PAD FOR HANDICAP ASSIST DOOR OPERATOR UP 900MM. CONTRACTOR SHALL PROVIDE WIRING TO DOOR OPERATOR MOTOR AND JUNCTION BOX FOR PUSH BUTTON C/W 21MM EMPTY CONDUIT TO DOOR OPERATOR. CONFIRM ROUGH-IN REQUIREMENTS WITH DOOR OPERATOR SUPPLIER.
20. WALL MOUNTED AIR HAND DRYER. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR MOUNTING HEIGHT.
21. PROVIDE ONE 41MM CONDUIT C/W PULL TWINE FROM THE FLOOR BOX TO A 100MM SQUARE RECESSED JUNCTION BOX UP 450MM A.F.F. C/W BLANK STAINLESS STEEL COVER FOR OWNERS A/V CABLE. PROVIDE ONE 27MM CONDUIT FROM FLOOR BOX TO ACCESSIBLE CEILING SPACE FOR DATA CABLES. PROVIDE ONE 27MM CONDUIT FROM THE FLOOR BOX TO ACCESSIBLE CEILING SPACE FOR POWER. COORDINATE LOCATION OF RECESSED FLOOR BOX AND CONDUIT RUNS WITH IN-FLOOR HEATING COILS.
22. PROVIDE A POLYCARBONATE COVER FOR F.A. PULLSTATION.
23. CONDUITS FOR RECEPTACLES AND DATA OUTLETS FOR SYSTEM FURNITURE SHOWN IN KEYNOTE 9 SHALL BE RUN CONCEALED IN WALL WITHIN CAVITY SPACE PROVIDED ADJACENT TO STRUCTURAL COLUMN.
24. PROVIDE WEATHERPROOF TELEPHONE OUTLET MOUNTED UP 1300MM A.F.G.
25. 53MM CONDUIT C/W MULTI-PAIR TELEPHONE HOUSE CABLE. RUN IN ACCESSIBLE CEILING TO ROOM 111. REFER TO SPECIFICATIONS AND DETAIL ON DRAWING E7.2.
26. MOUNT OUTLETS IN ARCHITECTURAL MILLWORK AND FEED THROUGH CHASE IN MILLWORK TO ADJACENT WALL. REFER TO ARCHITECTURAL DETAILS. REFER TO E8 DRAWINGS FOR SECURITY ROUGH-IN.
27. FROM THE FIRE PUMP DISTRIBUTION 'EDP-1' TO THE FIRE PUMP IN THE MEZZANINE SERVICE SPACE, RUN 3 CONDUCTOR #6 AWG MINERAL INSULATED CABLE OR "VITALINK MC" 2-HOUR RATED POWER CABLE WITH CORRUGATED COPPER SHEATH, 90C 600 VOLT, UL/ULC LISTED. THE 2-HOUR RATED POWER CABLE SHALL RISE UP INTO THE MEZZANINE VIA THE MEZZANINE SERVICE SPACE. FROM THE FIRE PUMP DISTRIBUTION 'EDP-1', RUN RIGID PVC CONDUIT AT 914mm BELOW FINISHED GRADE TO THE SASKPOWER TRANSFORMER; REFER TO DRAWING E6.1, DETAIL 1-FIRE PUMP SERVICE SINGLE LINE FOR FURTHER REQUIREMENTS FOR SERVICE CONDUCTOR, 'EDP1' MAIN BREAKER AND METERING REQUIREMENTS. THE VERTICAL AND HORIZONTAL RUN OF 2-HOUR RATED CABLE SHALL BE SUPPORTED AT MAXIMUM 1200MM ON CENTER. NO CABLE SPLICES PERMITTED BETWEEN 'EDP-1' AND THE FIRE PUMP. USE THE MANUFACTURER'S RECOMMENDED CONNECTORS FOR TERMINATION OF THE CABLE. FOR THE 'VITALINK MC' CABLE, USE BRASS MC CONNECTORS SUITABLE FOR CORRUGATED COPPER SHEATH CABLE: COOPER CROUSE-HINDS 'TMC' SERIES, HUBBEL KILLARK ELECTRIC 'MCR' SERIES OR THOMAS & BETTS 'STE' SERIES.
28. DESIGNATE LIVSCAN PRINTER DATA OVERLAY. LABEL "LIVSCAN". CONFIRM FINAL LOCATION WITH OWNER ON SITE.

MAIN FLOOR POWER & SYSTEMS KEYNOTES (Continued):

29. MAIN FIRE ALARM PANEL. REFER TO SPECIFICATIONS.
30. STACKED WASHER & DRYER UNIT. COORDINATE RECEPTACLE MOUNTING HEIGHTS WITH OWNER'S EQUIPMENT.
31. REFER TO ARCHITECTURAL DETAILS FOR FINAL LOCATIONS OF SMOKE DETECTORS IN THESE ROOMS.
32. PROVIDE INTERLOCK WITH DOOR OPERATOR PUSH BUTTON AND ELECTRIC STRIKE SO THAT WHEN THE ELECTRIC STRIKE IS OPERATIVE THE PUSH BUTTON IS DISABLED.
33. CONDENSATE PUMP FED FROM PANEL 'B'. PROVIDE 120 VOLT 1Ø CONNECTION WITH 1A IN LINE FUSE. REFER TO MOTOR & EQUIPMENT SCHEDULE ON DRAWING E5.2



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
NUMBER 52
PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL
SASK. REG. NO.: 9273
SIGNATURE: [Signature]

DO NOT SCALE DRAWINGS

Revision/Revisions	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2019/09/24

Client/client

Project title/Titre du projet

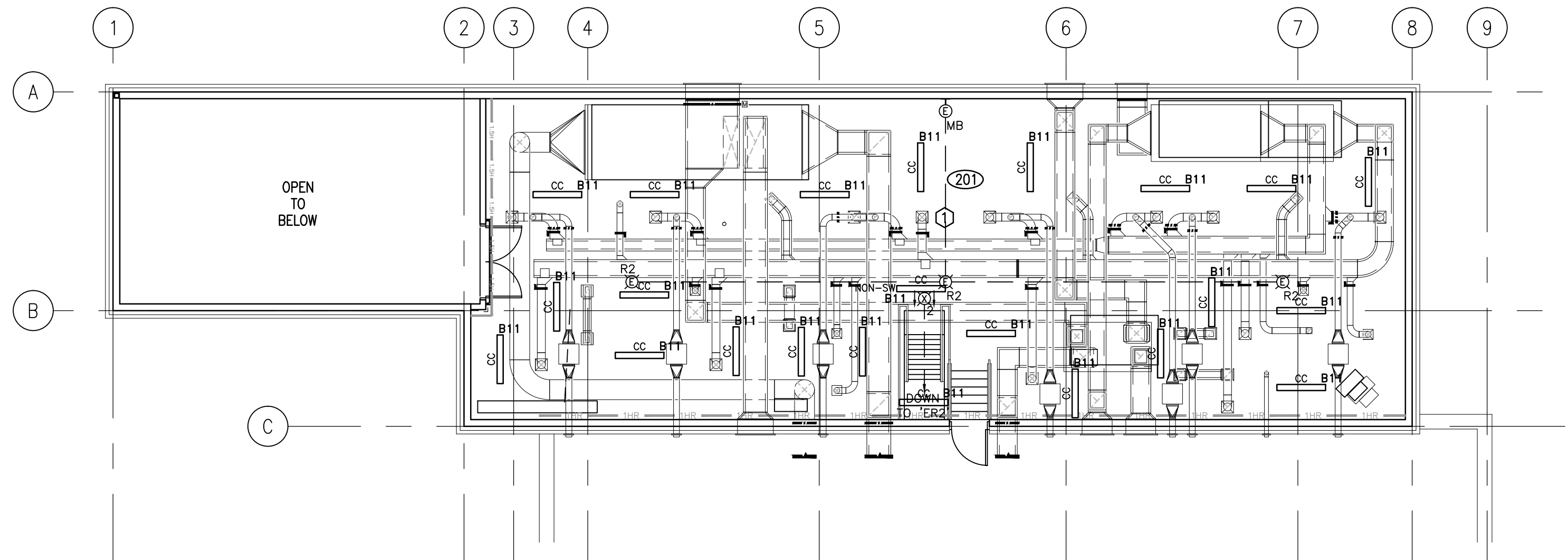
**NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN**

Approved by/Approve par
SBK
Designed by/Concept par
KAD
Drawn by/Dessine par
KAD
Project Manager/Administrateur de Projets

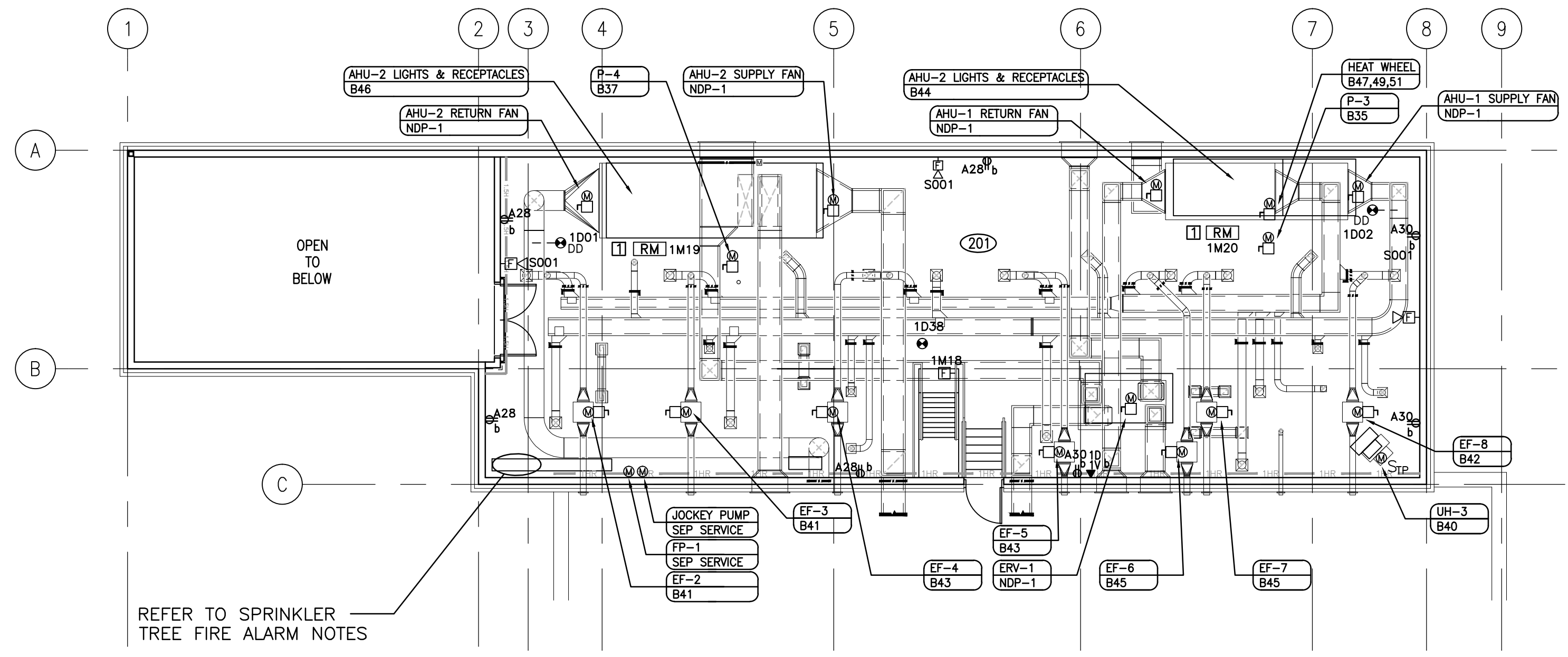
Architectural and Engineering Resources/ResOURCES Architectural et de Ressource d'ingénierie
Client/client

Drawing title/Titre du dessin
**MAIN FLOOR
POWER & SYSTEMS PLAN**

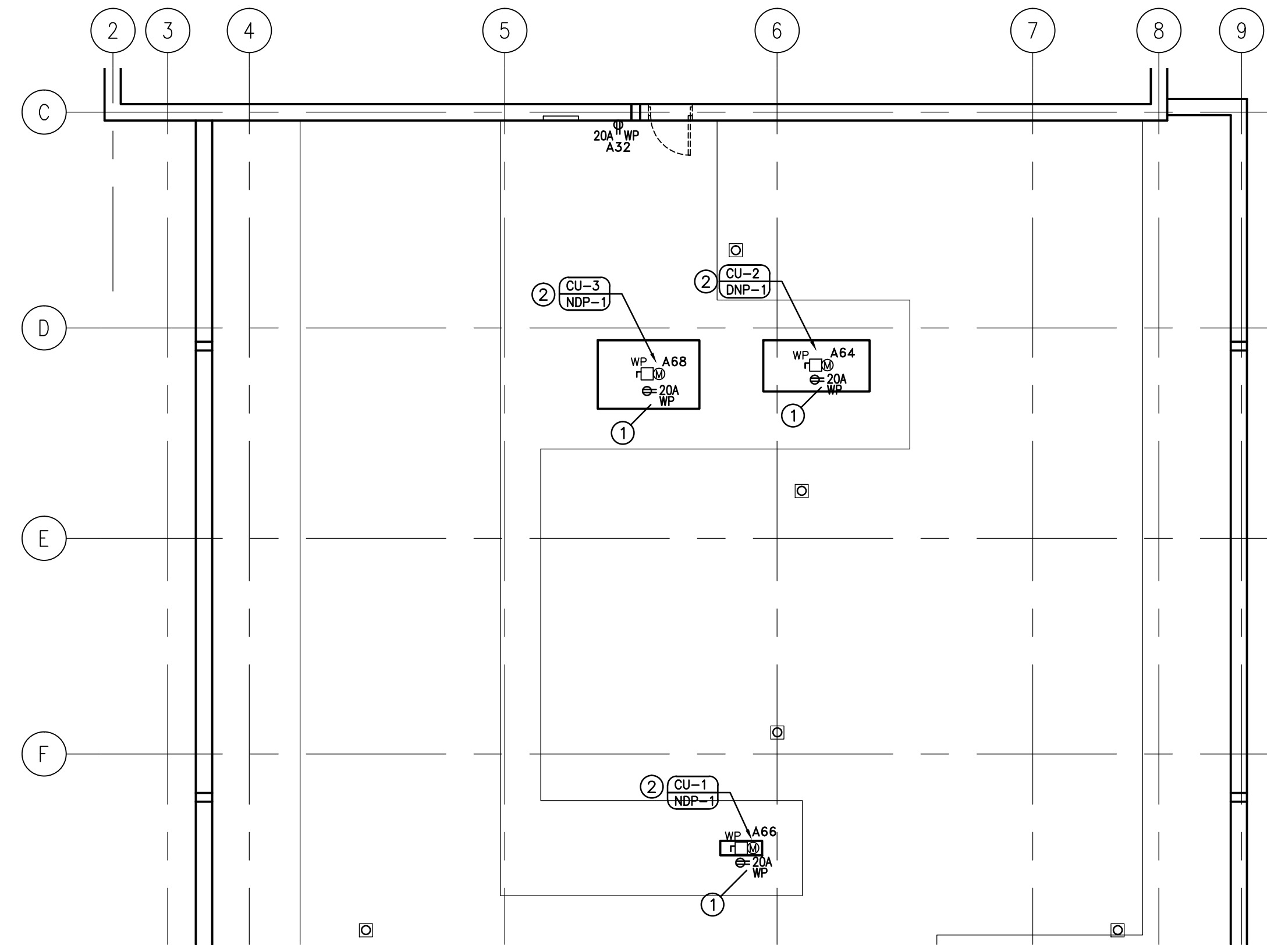
Project No./No. du projet: 24/2014
Sheet/Fauille: E3.1
Revision no./La Révision no.: 0



1 MEZZANINE LIGHTING PLAN
1:100



2 MEZZANINE POWER & SYSTEMS PLAN
1:100



3 ROOF POWER & SYSTEMS PLAN
1:100

ROOF POWER & SYSTEMS NOTES:

- ① PROVIDE A 5-20R GFI RECEPTACLE WITHIN A WEATHERPROOF IN-USE COVER MOUNTED 750mm ABOVE ROOF, ON RTU.
- ② CONFIRM RTU LOCATION AND REQUIREMENTS WITH MECHANICAL DRAWINGS.

SERVICE SPACE GENERAL NOTES:

- 1. PROVIDE 120-VOLT CIRCUIT TO SPRINKLER SYSTEM WATER GONG.

SERVICE SPACE LIGHTING NOTES:

- ① COORDINATE LOCATIONS OF LUMINAIRES WITH MECHANICAL DUCTS AND PIPING TO ACHIEVE OPTIMUM LIGHTING OF SPACE.

SERVICE SPACE POWER & SYSTEMS NOTES:

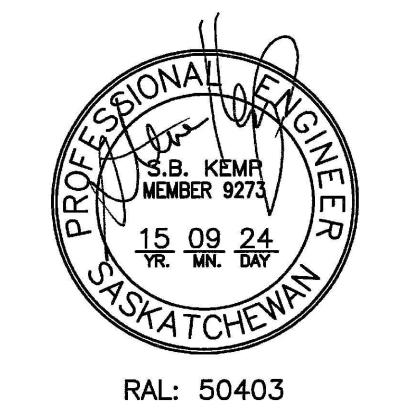
- PROVIDE A FIRE ALARM RELAY MODULE AND INTERCONNECT TO THE AIR HANDLING UNIT SUPPLY AND RETURN FAN VFD'S FOR SHUT DOWN OF THE AIR HANDLING UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.

SPRINKLER TREE FIRE ALARM NOTES:

- ⊗ BACK FLOW TAMPER SWITCHES 1M01/1M02.
- ⊗ FIRE PUMP ISOLATION VALVES 1M03/1M04.
- ⊗ FIRE PUMP BY-PASS VALVES 1M05/1M06.
- ⊗ MAIN SPRINKLER SHUT-OFF VALVE 1M07 & MAIN SPRINKLER FLOW VALVE 1M08.
- ⊗ MAIN FLOOR ZONE CONTROL VALVE 1M09 & FLOW SWITCH 1M10.
- ⊗ CELL AREA ZONE CONTROL VALVE 1M11 & FLOW SWITCH 1M12.
- ⊗ SERVICE SPACE ZONE CONTROL VALVE 1M13 & FLOW SWITCH 1M14.
- MM FIRE PUMP "RUNNING" MONITOR MODULE 1M15.
- MM FIRE PUMP "FAIL" MONITOR MODULE 1M16.
- MM SPRINKLER PRESSURE SWITCH 1M17.

SEPW Architecture Inc.
 100-3775 Praeger Street, Regina, SK S4S 0A8 ph: (306) 989-2555
 1200-1218 Kinross Street, Saskatoon, SK S7N 0A8 ph: (306) 652-4457
 website: www.sepw.ca

Ritenburg & Associates Ltd.
 Consulting Electrical Engineers
 #200-2222 Albert Street, Regina, SK S4P 2V2
 P: (306) 569-1303 F: (306) 569-1307
 Email: ral@ritenburg.com



ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. NO. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

Revision/Revisions	Description/Description	Date/Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24

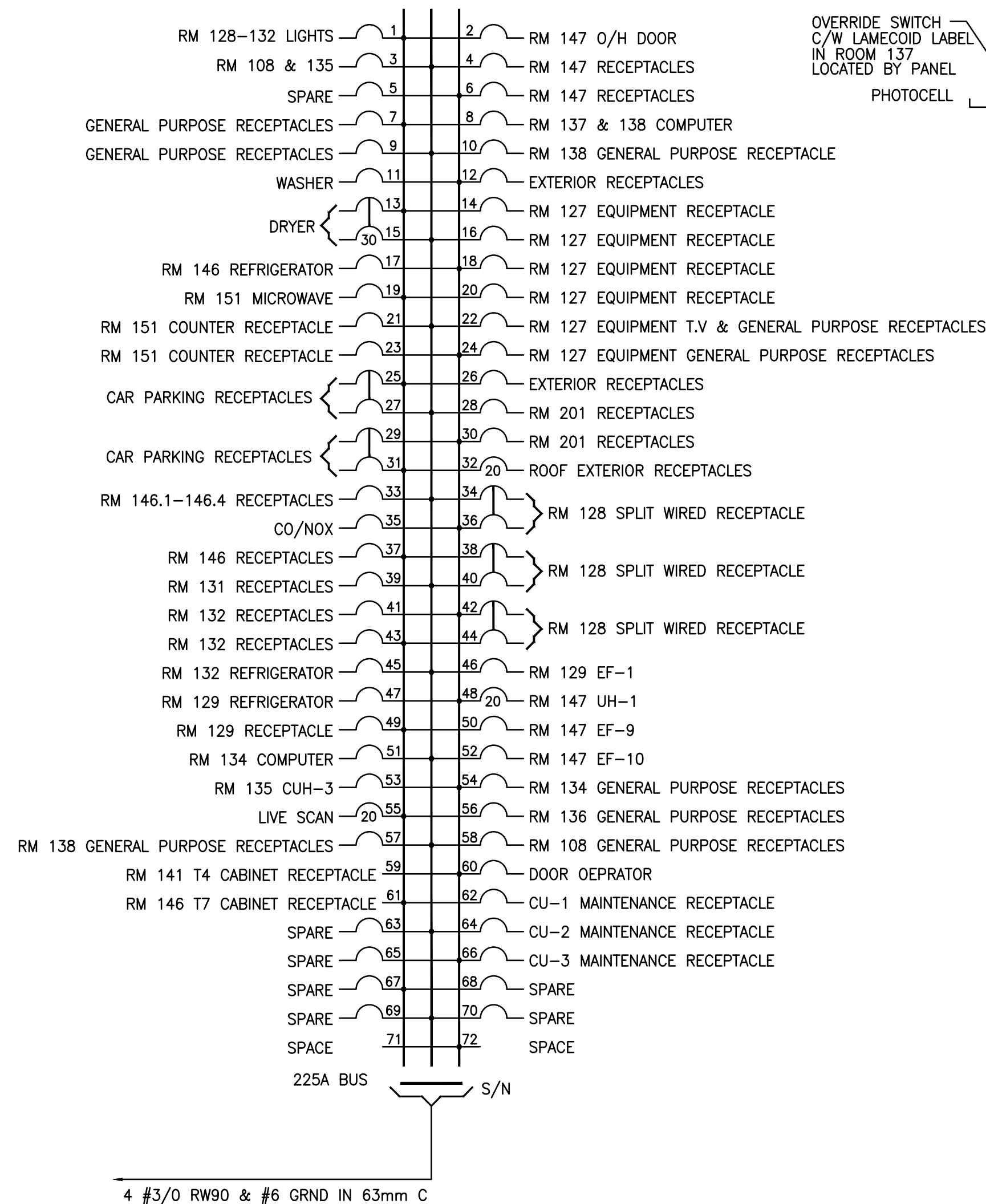
Project title/Titre du projet
**NEW POLICE BUILDING
 ONION LAKE, SASKATCHEWAN**

Approved by/Approve par: SBK
 Designed by/Concept par: KAD
 Drawn by/Dessine par: KAD
 Project Manager/Administrateur de Projets: KAD
 Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'ingénierie: KAD
 Client/client:

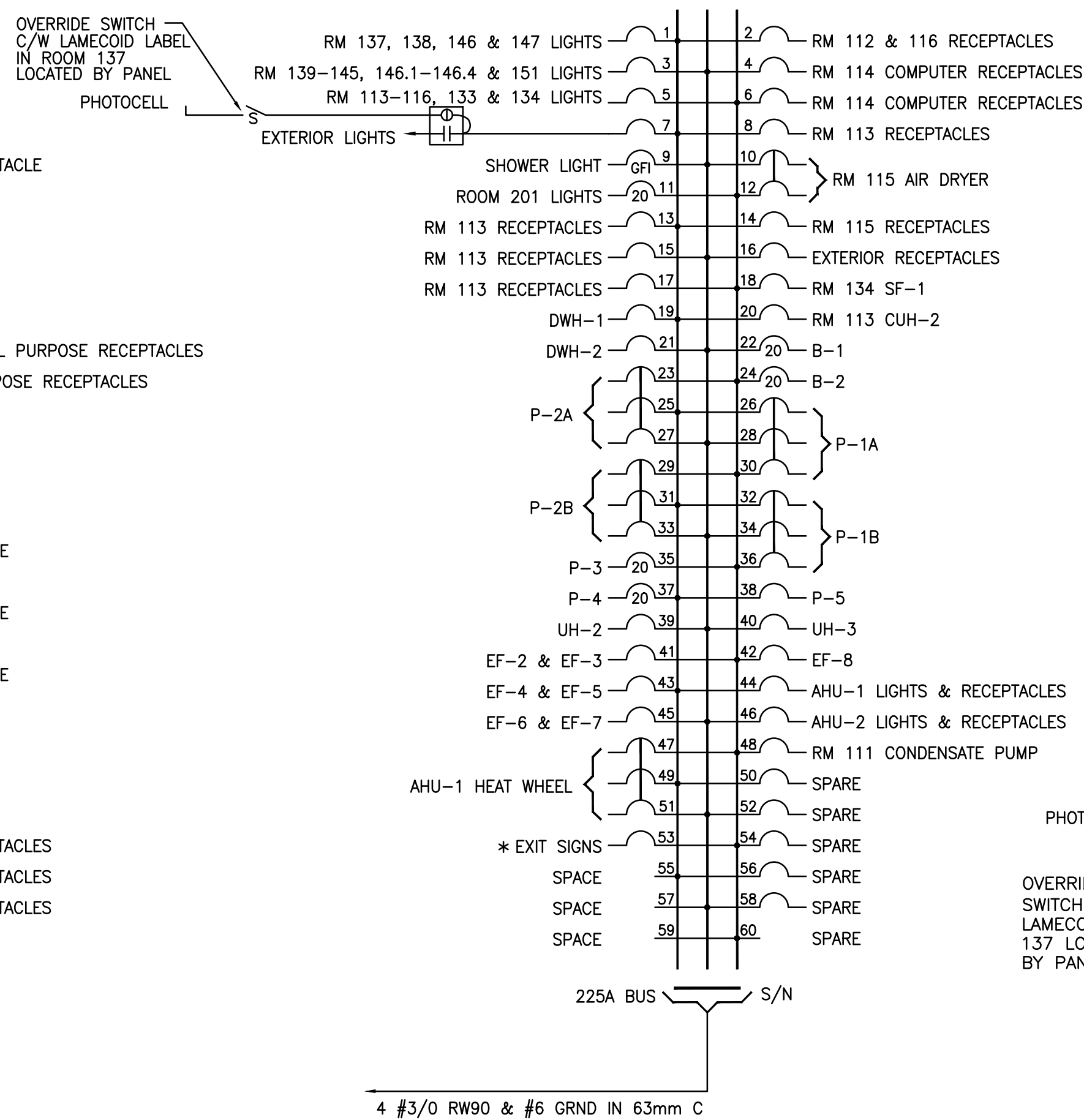
Drawing title/Titre du dessin
**MEZZANINE
 LIGHTING PLAN
 POWER & SYSTEMS PLAN
 ROOF
 POWER & SYSTEMS PLAN**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
24/2014	E4.1	0

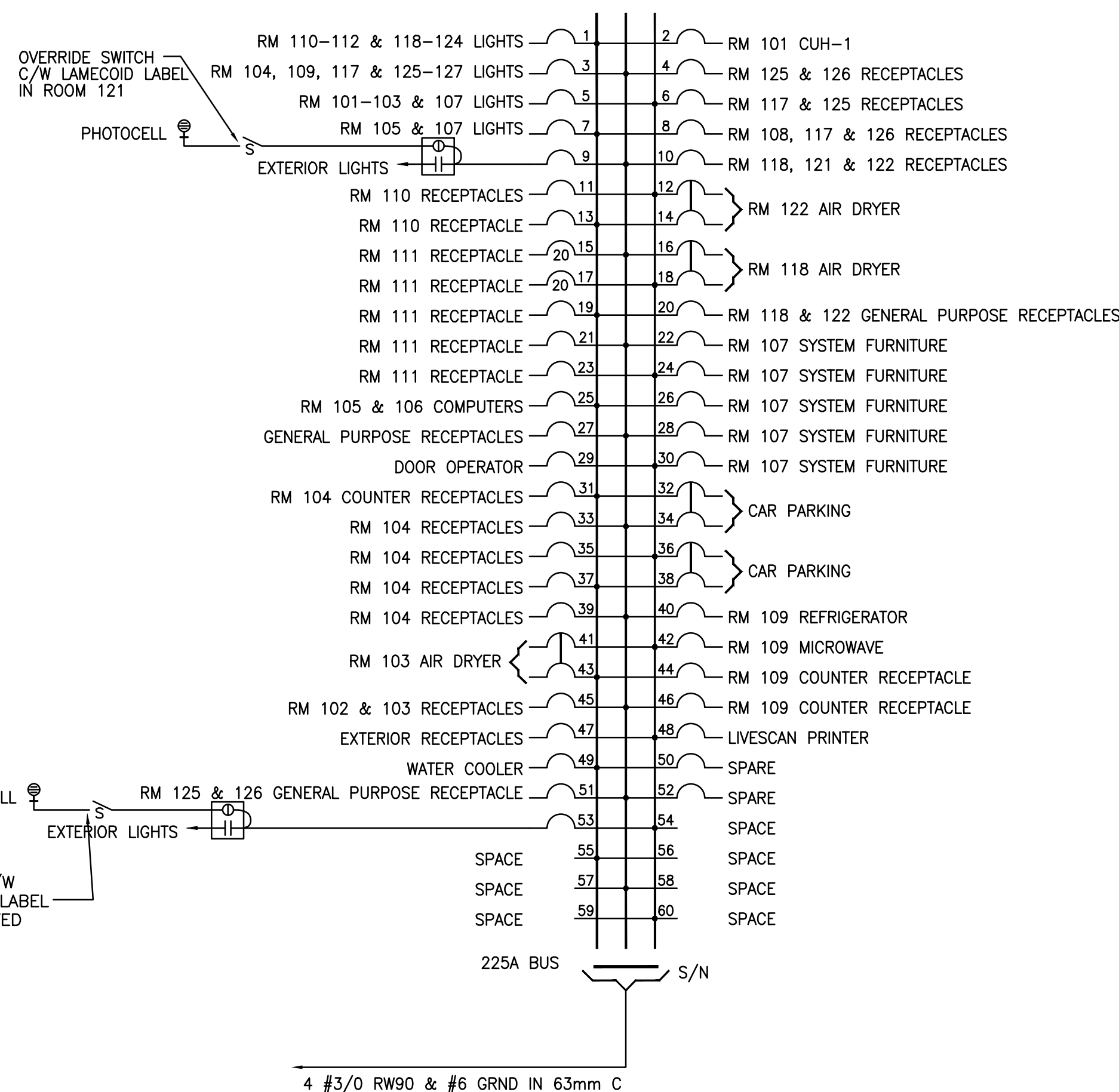
ROOM 134
PANEL A
(120/208 V.-3 ϕ -4W)



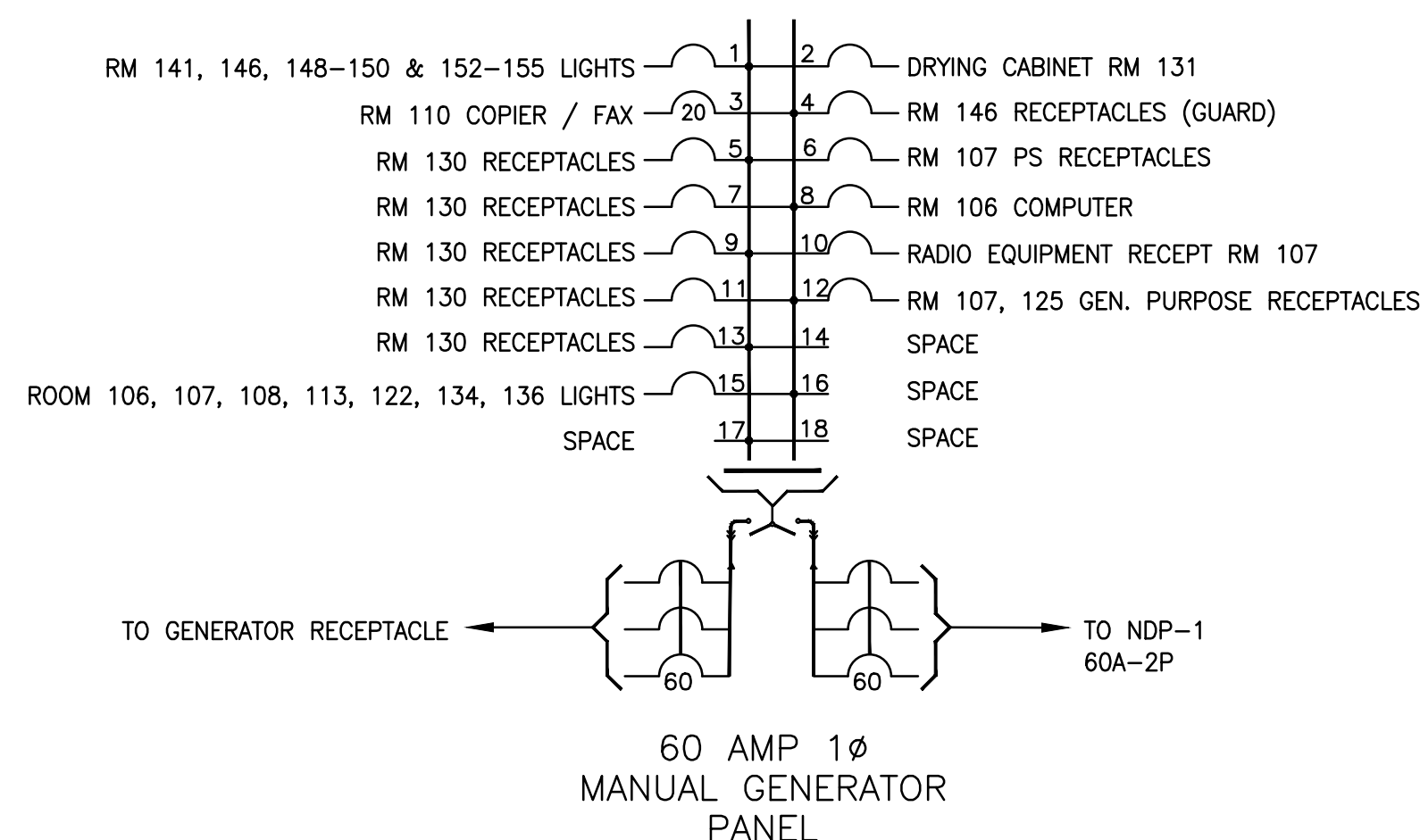
ROOM 134
PANEL B
(120/208 V.-3 ϕ -4W)



ROOM 108
PANEL C
(120/208 V.-3 ϕ -4W)



TRANSFER SWITCH PANEL
RM 134 EMERGENCY
PANEL E
(110/240 V.-1 ϕ -3W)



EMERGENCY GENERATOR PANEL 'E' - TRANSFER SWITCH:

- 60 AMP 3-POLE UTILITY/GENERATOR CIRCUIT BREAKERS SWITCH BOTH LINE AND NEUTRAL CONDUCTORS IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.
 - ACCEPTS UP TO 18 STANDARD BREAKERS OR 36 TANDEM BREAKERS.
 - QWIK-OPEN 'VISI'-TRIP BRANCH CIRCUIT BREAKERS.
 - UTILITY BREAKERS AND GENERATOR BREAKERS ARE MECHANICALLY INTERLOCKED TO ENSURE ONLY ONE POWER SOURCE IS AVAILABLE.
 - PANEL IS DESIGNED FOR USE WITH BONDED OR UN-BONDED GENERATORS.
 - ALL GENERATOR PANEL COMPONENTS SHALL BE FACTORY INSTALLED.
 - 10,000 AIC RATING, 125 AMP BUS RATING.
 - TRANSFER PANEL SHALL BE SUPPLIED WITH NEUTRAL AND GROUND.
 - ENCLOSURE RATING EEMAC1
 - PANEL SHALL BE CSA APPROVED.
- MANUFACTURER:
EATON #CPL130G6 SERIES
SCHNEIDER #QOGP3P6036 SERIES
OR APPROVED EQUAL.
- * INDICATES BREAKER C/W LOCK ON DEVICE



RAL: 50403
ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
NUMBER 52
PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL
SASK. REG. NO.: 9273
SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/Revision	Description/Description	Date/Date

Project title/Titre du projet

**NEW POLICE BUILDING
UNION LAKE, SASKATCHEWAN**

Approved by/Approve par

SBK

Designed by/Concept par

KAD

Drawn by/Dessine par

RPC

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

PANEL SCHEMATICS

Project No./No. du projet
24/2014

Sheet/Fauille
E5.1

Revision no./
La Révision no.
0



MOTOR & EQUIPMENT SCHEDULE

Equip
Cct #

Item	Description	kW	H.P.	Volt	Ø	F.L.A.	M.C.A	Starter	Size	Starter Location	Fuse	Brkr	Feeder	Panel	Notes
AC-1	AIR CONDITIONING UNIT - ROOM 111	2.27	-	208	1	-	1	-	-	-	-	15A-2P	2 #10 + #10 INS. BOND IN 21C.	-	SEE NOTE 1
	CONDENSATE PUMP - ROOM 111	-	-	120	1	-	-	-	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 1
AHU-1	AIR HANDLING UNIT RF-1 - ROOM 201	2.238	3	208	3	10.6	13.2	VFD	-	201	-	25A-3P	3 #12 + #12 INS. BOND IN 21C.	NDP-1	SEE NOTE 2, 3, 5 & 6
	AIR HANDLING UNIT SF-1 - ROOM 201	3.73	5	208	3	16.7	20.9	VFD	-	201	-	40A-3P	3 #8 + #10 INS. BOND IN 21C.	NDP-1	SEE NOTE 5
	HEAT WHEEL MOTOR	0.373	1/2	208	3	2.4	3.0	-	-	-	-	15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 4
AHU-2	AIR HANDLING UNIT RF-2 - ROOM 201	5.595	8	208	3	25	31	VFD	-	201	-	60A-3P	3 #6 + #8 INS. BOND IN 27C.	NDP-1	SEE NOTE 2, 3, 5 & 6
	AIR HANDLING UNIT SF-2 - ROOM 201	7.46	10	208	3	30.8	38.5	VFD	-	201	-	70A-3P	3 #4 + #8 INS. BOND IN 35C.	NDP-1	SEE NOTE 5
B-1, B-2	BOILER UNIT - ROOM 134	-	-	120	1	16 ea	20	-	-	-	-	40-1P ea	2 #8 + #12 INS. BOND IN 21C.	PANEL B	-
CU-1	OUTDOOR CONDENSING UNIT - ROOF	-	-	208	1	-	18	F.V.N.R.	1	-	-	35A-2P	2 #10 + #10 INS. BOND IN 21C.	NDP-1	SEE NOTE 1 & 6
CU-2	CONDENSING UNIT - ROOF	-	-	208	3	35	39	F.V.N.R.	1	-	-	50A-3P	3 #8 + #10 INS. BOND IN 21C.	NDP-1	SEE NOTE 1 & 6
CU-3	CONDENSING UNIT - ROOF	-	-	208	3	118	130	F.V.N.R.	1	-	-	175A-3P	3 #2/0 + #6 INS. BOND IN 53C.	NDP-1	SEE NOTE 1 & 6
CUH-1	CABINET UNIT HEATER - ROOM 101	.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL C	SEE NOTE 6
CUH-2	CABINET UNIT HEATER - ROOM 113	.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
CUH-3	CABINET UNIT HEATER - ROOM 135	.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
DWH-1, DWH-2	WATER HEATER - ROOM 134	-	-	120	1	FR	-	-	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 7
EF-1	ROOM 129	0.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
EF-2	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-3	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-4	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-5	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-6	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-7	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-8	ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
EF-9	ROOM 147	0.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
EF-10	ROOM 147	0.19	1/4	120	1	5.8	7.3	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
ERV-1	ENERGY RECOVERY VENTILATOR - ROOM 201	2.238	3	208	3	18.2	22.7	VFD	-	-	-	45A-3P	3 #10 + #10 INS. BOND IN 21C.	NDP-1	SINGLE POINT CONNECTION
UH-1	UNIT HEATER ROOM 147	0.37	1/2	120	1	9.8	12.3	TH. SW.	-	-	-	20A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	SEE NOTE 6
UH-2	UNIT HEATER ROOM 134	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
UH-3	UNIT HEATER - ROOM 201	0.12	1/6	120	1	4.4	5.5	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
CO/NOX	GAS DETECTOR	-	-	120	1	-	-	-	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL A	DIRECT CONNECT
FP-1	FIRE PUMP	-	15	208	3	46.2	57.8	FVNR	1	201	-	-	REFER TO NOTE 9	SEPARATE SERVICE	SEPARATE SERVICE REFER TO DRAWING E6
	FIRE PUMP CONTROLLER	-	-	208	3	-	-	-	-	201	-	-	-	-	SEE NOTE 8
JP-1	SPRINKLER JOCKEY PUMP - ROOM 201	0.25	-	120	1	-	-	-	-	201	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	SEPARATE SERVICE	C/W AUTO AND MANUAL CONTROL
P-1A	MAIN HEATING PUMP - ROOM 134	1.49	2	208	3	7.5	9.4	VFD	-	134	-	15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 5 & 6
P-1B	MAIN HEATING PUMP - ROOM 134	1.49	2	208	3	7.5	9.4	VFD	-	134	-	15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 5 & 6
P-2A	LOW TEMPERATURE HEATING PUMP - ROOM 134	1.49	2	208	3	7.5	9.4	VFD	-	134	-	15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 5 & 6
P-2B	LOW TEMPERATURE PUMP - ROOM 134	1.49	2	208	3	7.5	9.4	VFD	-	134	-	15A-3P	3 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 5 & 6
P-3	AUH-1 COIL PUMP - ROOM 201	0.37	1/2	120	1	9.8	12.3	FVNR	1	134	-	20A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
P-4	AUH-2 COIL PUMP - ROOM 201	0.37	1/2	120	1	9.8	12.3	FVNR	1	134	-	20A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
P-5	DOMESTIC RECIRC PUMP - ROOM 134	0.09	1/8	120	1	-	-	FVNR	1	134	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6
SF-1	SYSTEM FILL PUMP ROOM 134	-	-	120	1	0.7	-	TH. SW.	-	-	-	15A-1P	2 #12 + #12 INS. BOND IN 21C.	PANEL B	SEE NOTE 6

MECHANICAL EQUIPMENT SCHEDULE NOTES

1. NEW AIR CONDITIONING UNIT AC-1 CONSISTS OF AN OUTDOOR UNIT (ROOF MOUNTED CONDENSER, CU-1) AND AN INDOOR UNIT. PROVIDE THE FOLLOWING FOR AIR CONDITIONING AC-1:

PROVIDE AN ELECTRICAL CONNECTION TO THE NEW OUTDOOR CONDENSING UNIT ON THE ROOF. CONDENSING UNIT IS RATED AT 208 VOLTS, SINGLE PHASE, MINIMUM CIRCUIT AMPS OF 18 AMPS. FEED FROM A NEW 35 AMP, 2 POLE BREAKER IN NEW DISTRIBUTION 1 (NDP-1). RUN 2 #10 RW90 + #10 INSULATED BOND IN A 21MM CONDUIT. INSTALL A NON-FUSED WEATHERPROOF DISCONNECT SWITCH AT THE CONDENSING UNIT.

PROVIDE CONNECTION TO THE NEW INDOOR UNIT WITHIN ROOM 111. INDOOR UNIT IS RATED AT 208 VOLT, SINGLE PHASE, 1.0 MINIMUM CIRCUIT AMPS. INDOOR UNIT POWER IS SUPPLIED FROM THE OUTDOOR CONDENSING UNIT, WITH INTERNAL PROTECTION PROVIDED IN THE CONDENSING UNIT. RUN 2 #10 RW90 + #10 INSULATED BOND IN 21MM CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT, AND COMPLETE THE POWER TERMINATIONS. OUTDOOR AND INDOOR UNIT HAVE POLARITIES - ENSURE INSTALLATION/CONNECTIONS ARE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE A SEPARATE 120 VOLT 1Ø CONNECTION WITH 1A IN LINE FUSE TO CONDENSATE PUMP LOCATED IN ROOM 111.

2. THE AIR HANDLING UNIT ENCLOSURE IS SUPPLIED WITH LIGHTING AND RECEPTACLES THAT WILL REQUIRE FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR. ALL LIGHT FIXTURES, LIGHT SWITCHES AND RECEPTACLES ARE SUPPLIED, INSTALLED AND PRE-WIRED BY THE AHU MANUFACTURER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V CIRCUIT CONNECTIONS TO THE LIGHTING AND RECEPTACLES MOUNTED ON THE AHU ENCLOSURE.

3. THE AHU IS SUPPLIED C/W MOTOR FEEDER TERMINATION BOXES MOUNTED ON THE AHU ENCLOSURE. ALL WIRING WITHIN THE AHU ENCLOSURE IS PREWIRED BY THE MANUFACTURER. PROVIDE A DISCONNECT SWITCH AT THE MOTOR TERMINATION BOX LOCATIONS AND PROVIDE FINAL WIRING AND CONNECTION FROM VFD TO MOTOR.

4. THE HEAT RECOVERY WHEEL IS SUPPLIED C/W PACKAGED VFD THAT IS MOUNTED ON THE AHU ENCLOSURE. PROVIDE FINAL CONNECTIONS AT THE VFD. ALL WIRING WITHIN THE AHU ENCLOSURE IS PREWIRED BY THE MANUFACTURER. PROVIDE 15 AMP 120 VOLT CIRCUIT TO HEAT WHEEL FAN MOTOR. PROVIDE FINAL WIRING CONNECTION FROM VFD TO MOTOR.

5. VFD IS INTEGRAL AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE UNIT AND FROM THE VFD TO THE EQUIPMENT MOTOR FINAL CONNECTION.

6. MECHANICAL EQUIPMENT SHALL BE CONTROLLED BY EMCS REFER TO MECHANICAL FLOOR PLANS FOR SWITCH LOCATIONS.

7. PROVIDE DUPLEX RECEPTACLES ADJACENT TO UNIT MOUNTED UP 900mm.

8. SOFT START SOFT STOP FIRE PUMP CONTROLLER HORSE POWER TO MATCH FIRE PUMP. COORDINATE WITH MECHANICAL.

9. RUN 3 CONDUCTOR 3 #6 AWG MINERAL INSULATED CABLE OR 'VITALINK MC' 2-HOUR RATED POWER CABLE.

MECHANICAL EQUIPMENT GENERAL NOTES

1. ALL EQUIPMENT CONTROLLED BY THE BUILDING BMS SHALL HAVE ALL LOW VOLTAGE CONTROL WIRING SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.

2. ALL CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.

3. FAN COIL UNITS ARE SUPPLIED C/W SPEED CONTROL, INTEGRAL DISCONNECT. ELECTRICAL CONTRACTOR SHALL PROVIDE (12) 15 AMP 120 VOLT CIRCUITS LOCATED IN THE CEILING SPACE FOR FAN COILS.

NOTE: CONDUCTOR/CONDUIT SIZES SHOWN IN THE EQUIPMENT SCHEDULE ARE MINIMUM SIZES. FEEDERS SHALL BE ADJUSTED ACCORDINGLY TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.

ABBREVIATION LEGEND

VFD - VARIABLE FREQUENCY DRIVE
 FVNR - FULL VOLTAGE NON-REVERSING STARTER
 SEP. COMB. - SEPARATE COMBINATION STARTER/DISCONNECT
 TP. SW. - THERMAL SWITCH WITH PILOT LIGHT
 1Ø MAG - SINGLE PHASE MAGNETIC STARTER/DISCONNECT
 FR - FRACTION F.L.A.

SEPW Architecture Inc.

100 - 3775 Praeger Street, Regina, SK S4S 0R8 ph: (306) 989-2555
 1200 - 2118 Kinross Place, Saskatoon, SK S7N 1A8 ph: (306) 924-4427
 website: www.sepw.ca

Ritenburg & Associates Ltd.
 Consulting Electrical Engineers
 #200-2222 Albert Street, Regina, SK S4P 2V2
 P: (306) 924-1303 F: (306) 924-1307
 Email: ra@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
 OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
 RITENBURG & ASSOCIATES LTD.

NUMBER 52

PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. NO. 9273 SIGNATURE: [Signature]

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24

Revision/Description Date/Date

Client/client

Project title/Titre du projet

**NEW POLICE BUILDING
 ONION LAKE, SASKATCHEWAN**

Approved by/Approve par SBK

Designed by/Concep par KAD

Drawn by/Dessine par RRC

Project Manager/Administrateur de Projets

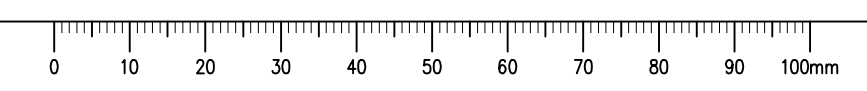
Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingenierie

Client/client

Drawing title/Titre du dessin

EQUIPMENT SCHEDULE

Project No./No. du projet: 24/2014
 Sheet/Fauille: E5.2
 Revision no./La Revision no.: 0





RAL: 50403
 ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2015/09/24

Project title/Titre du projet
**NEW POLICE BUILDING
 UNION LAKE, SASKATCHEWAN**

Approved by/Approve par: SBK
 Designed by/Concept par: KAD
 Drawn by/Dessine par: RPC
 Project Manager/Administrateur de Projets:

Architectural and Engineering Resources Manager/
 Ressources Architecturales et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin
SINGLE LINE SCHEMATIC

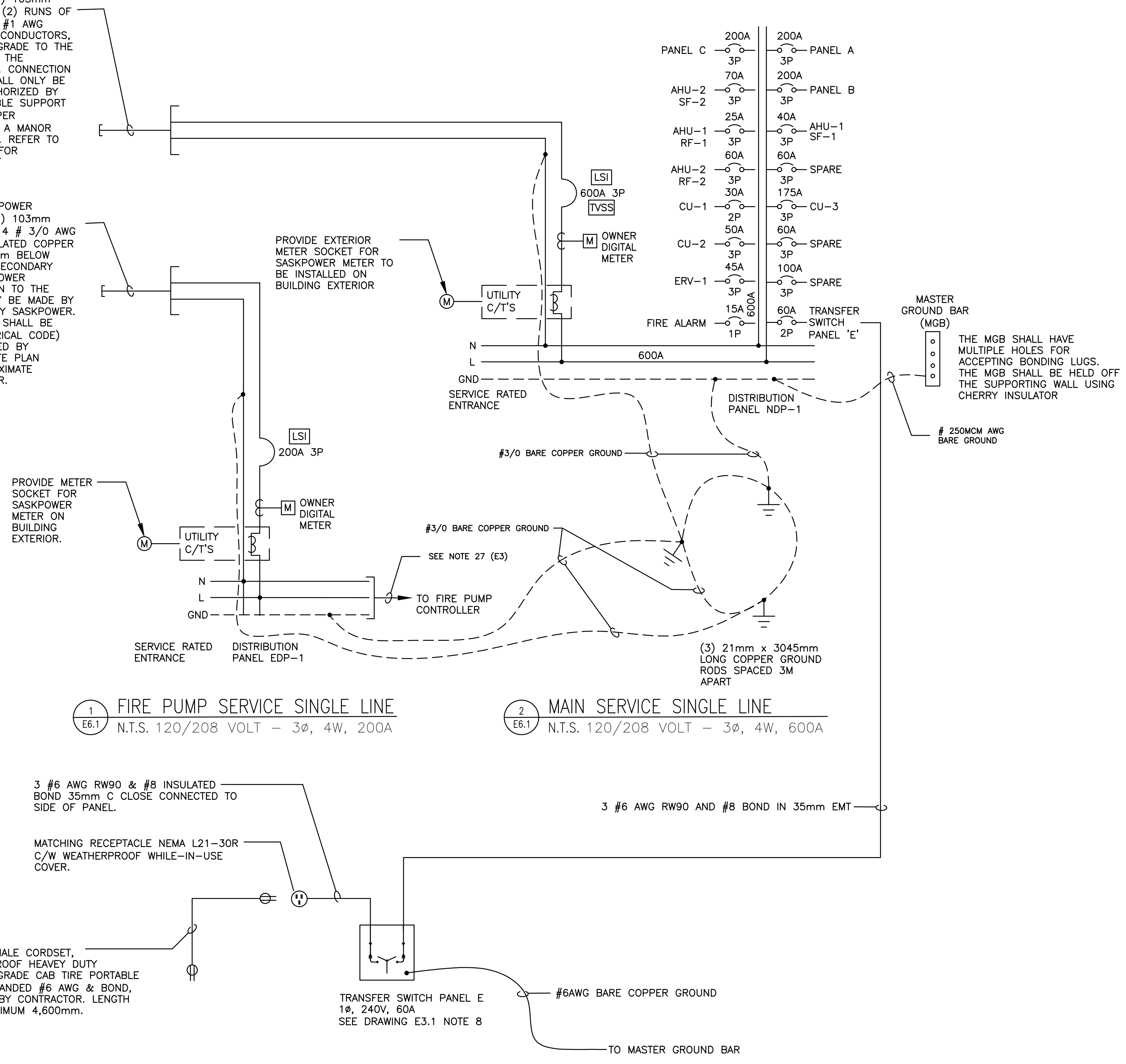
Project No./No. du projet 24/2014	Sheet/Fauille E6.1	Revision no./La Révision no. 0
---	------------------------------	--

STUB OUT FOR NEW SASKPOWER BUILDING SERVICE. RUN (2) 103mm RIGID PVC CONDUITS C/W (2) RUNS OF 4 # 350MCM RWU90 AND #1 AWG INSULATED COPPER BOND CONDUCTORS, 914mm BELOW FINISHED GRADE TO THE SECONDARY TERMINALS OF THE SASKPOWER TRANSFORMER. CONNECTION TO THE TRANSFORMER SHALL ONLY BE MADE BY INDIVIDUALS AUTHORIZED BY SASKPOWER. SUITABLE CABLE SUPPORT SHALL BE PROVIDED (AS PER ELECTRICAL CODE) AND IN A MANNER APPROVED BY SASKPOWER. REFER TO SITE PLAN DRAWING E1.1 FOR APPROXIMATE LOCATION OF TRANSFORMER.

STUB OUT FOR NEW SASKPOWER BUILDING SERVICE. RUN (1) 103mm RIGID PVC CONDUITS C/W 4 # 3/0 AWG RWU90 AND #6 AWG INSULATED COPPER BOND CONDUCTORS, 914mm BELOW FINISHED GRADE TO THE SECONDARY TERMINALS OF THE SASKPOWER TRANSFORMER. CONNECTION TO THE TRANSFORMER SHALL ONLY BE MADE BY INDIVIDUALS AUTHORIZED BY SASKPOWER. SUITABLE CABLE SUPPORT SHALL BE PROVIDED (AS PER ELECTRICAL CODE) AND IN A MANNER APPROVED BY SASKPOWER. REFER TO SITE PLAN DRAWING E1.1 FOR APPROXIMATE LOCATION OF TRANSFORMER.

GENERAL NOTES:

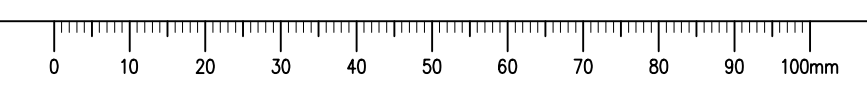
- THE FIRE PUMP SERVICE AND THE MAIN DISTRIBUTION SERVICE ENTRANCE RATED AS PER THE ELECTRICAL CODE RULE. 2.024 .
- FOR DETAIL #3 ENSURE GROUNDING AND BONDING SHOWN FOR THE TRANSFER SWITCH SHALL COMPLY WITH CANADIAN ELECTRICAL CODE RULE 10-204(1)(C)
- PROVIDE REQUIRED SECONDARY CABLE SLACK (APPROXIMATELY 4 METER) AS PER SASKPOWER SERVICE GUIDE, WITHIN CABLE VAULT.
- THE OWNER'S DIGITAL METER SHALL BE CAPABLE OF MEASURING AND DISPLAYING THE FOLLOWING:
 - VOLTAGE AND CURRENT FOR EACH PHASE AND NEUTRAL
 - CURRENT DEMAND—MAXIMUM PER PHASE & NEUTRAL
 - VOLTAGE, PER PHASE (L-L, L-N)
 - POWER, PER PHASE, 3-PH TOTAL (kW, kVA, kVAR)
 - POWER FACTOR, 3 PHASE TOTAL
 - POWER DEMAND (kVAr, kWd) PRESENT & PEAK
 - kWh, kVArh, kVAh
 - MINIMUM/MAXIMUM READING, I, V, F, PF, THD, HZ
 - THD, VOLTAGE AND CURRENT PER PHASE
 - VOLTAGE AND CURRENT MAGNITUDES AND ANGLES TO THE 63RD HARMONIC
 - CONFIGURABLE WAVEFORM DISTURBANCE SAG/SWELL DETECTION.
- PROVIDE TVSS INTO THE MAIN SERVICE SWITCHBOARD. THE MAXIMUM SINGLE IMPULSE CURRENT RATING SHALL BE 120,000 AMPERES PER PHASE. THE SURGE PROTECTIVE DEVICE SHALL BE EQUIPPED WITH A TRANSIENT EVENT SURGE COUNTER SHALL BE LOCATED ON THE FRONT COVER OF THE PANELBOARD ENCLOSURE. THE COUNTER SHALL BE EQUIPPED WITH A MANUAL RESET AND A BATTERY TO RETAIN MEMORY UP ON LOSS OF AC POWER. THE UNIT SHALL BE FED WITH A CIRCUIT BREAKER THAT SHALL PERMIT DISCONNECTION OF THE DEVICE.
- CONTRACTOR SHALL PROVIDE LOCK-ON DEVICE FOR FIRE ALARM BREAKER AND PAINT BREAKER RED.

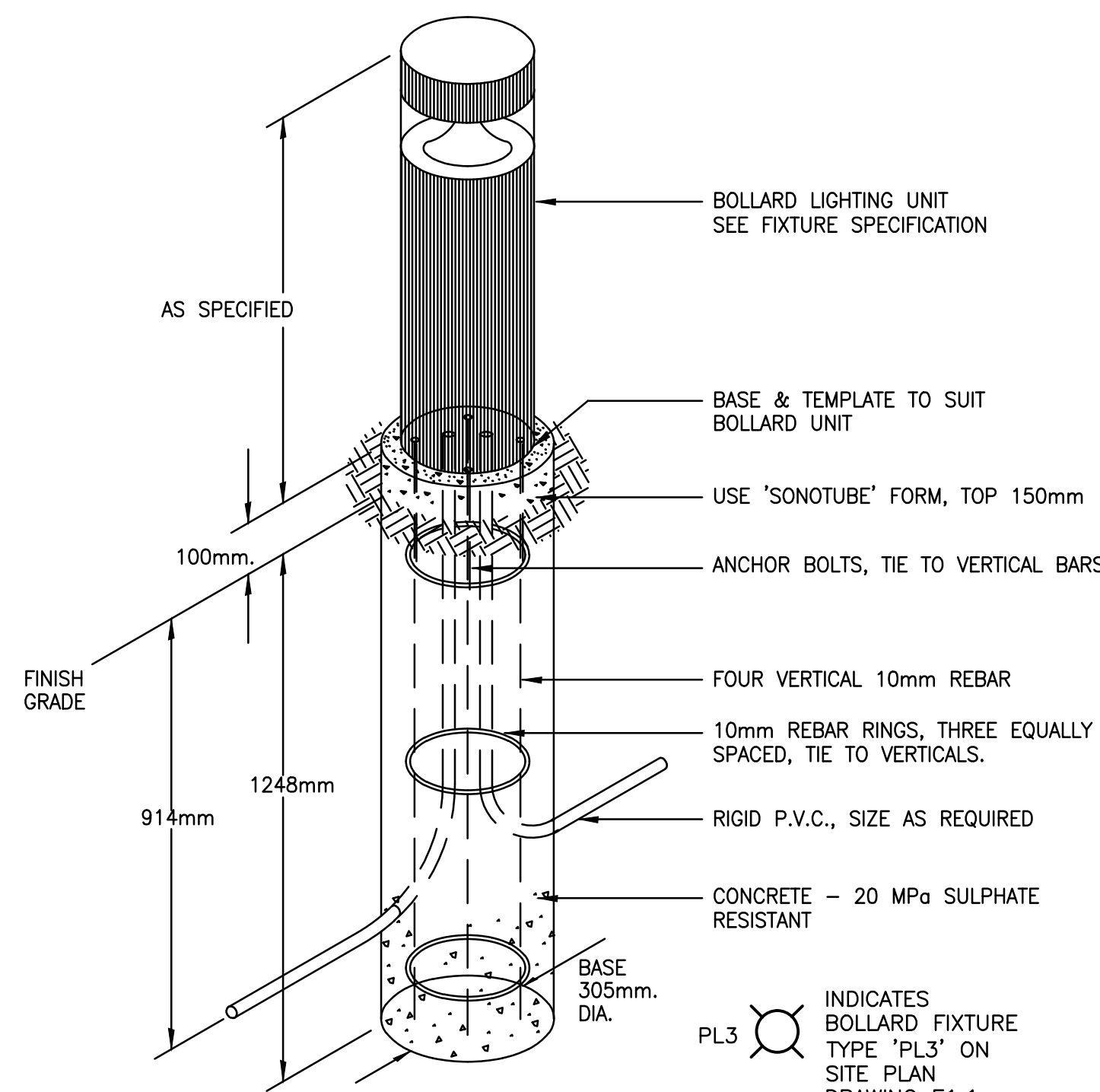


1 FIRE PUMP SERVICE SINGLE LINE
 N.T.S. 120/208 VOLT - 3 ϕ , 4W, 200A

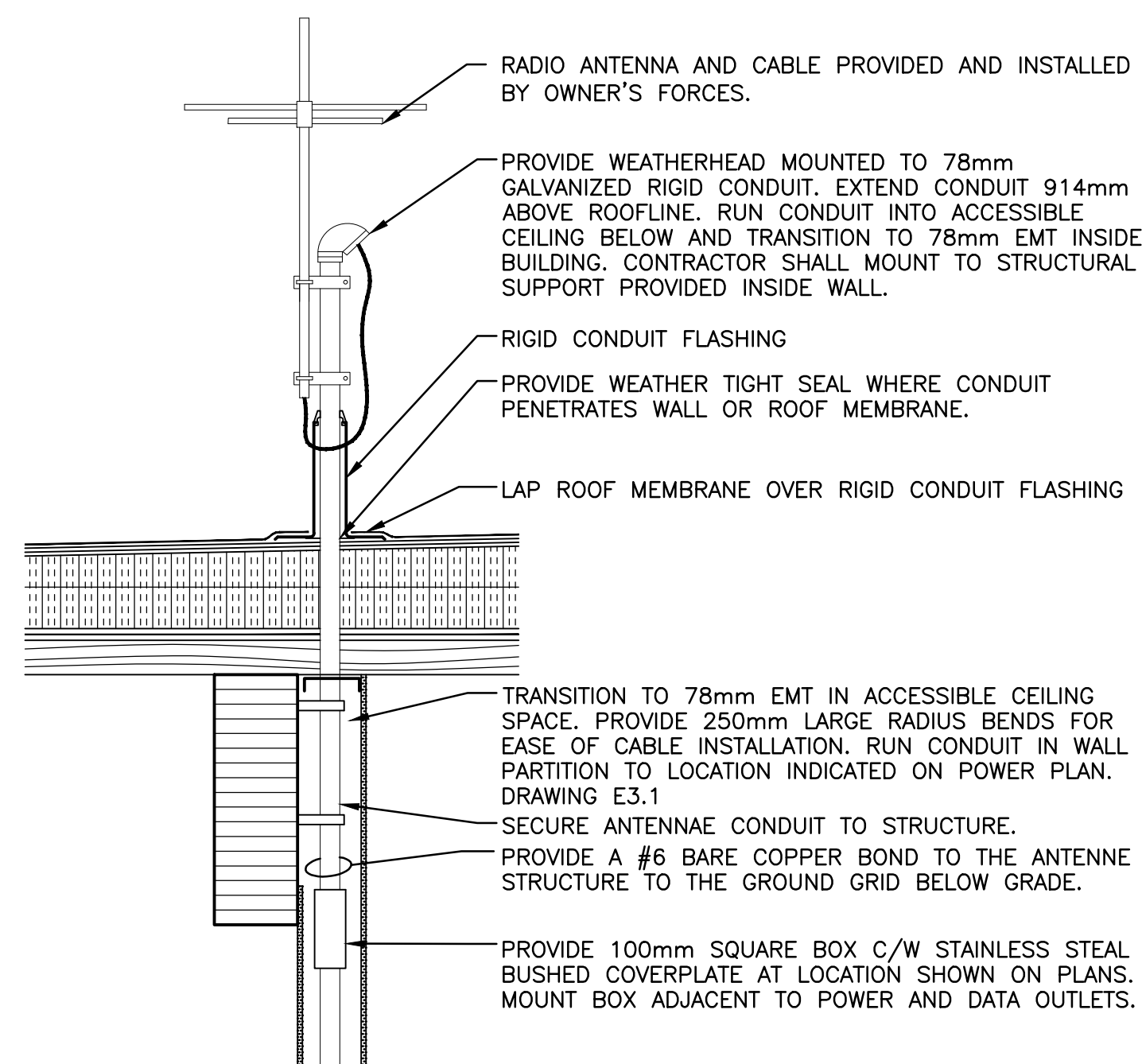
2 MAIN SERVICE SINGLE LINE
 N.T.S. 120/208 VOLT - 3 ϕ , 4W, 600A

3 EMERGENCY DISTRIBUTION SINGLE LINE
 N.T.S. 110/240 VOLT 1 ϕ , 3W, 60A

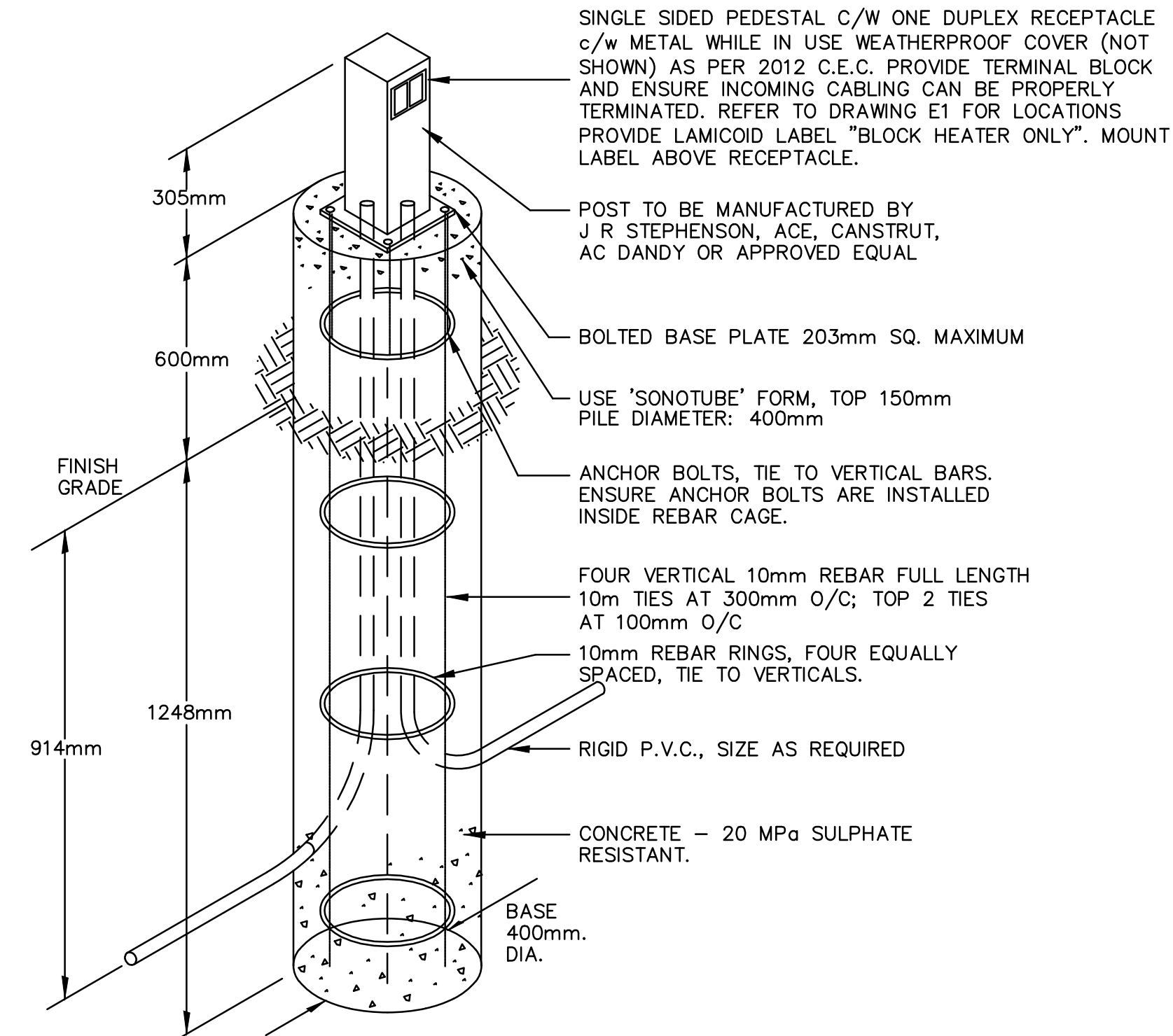




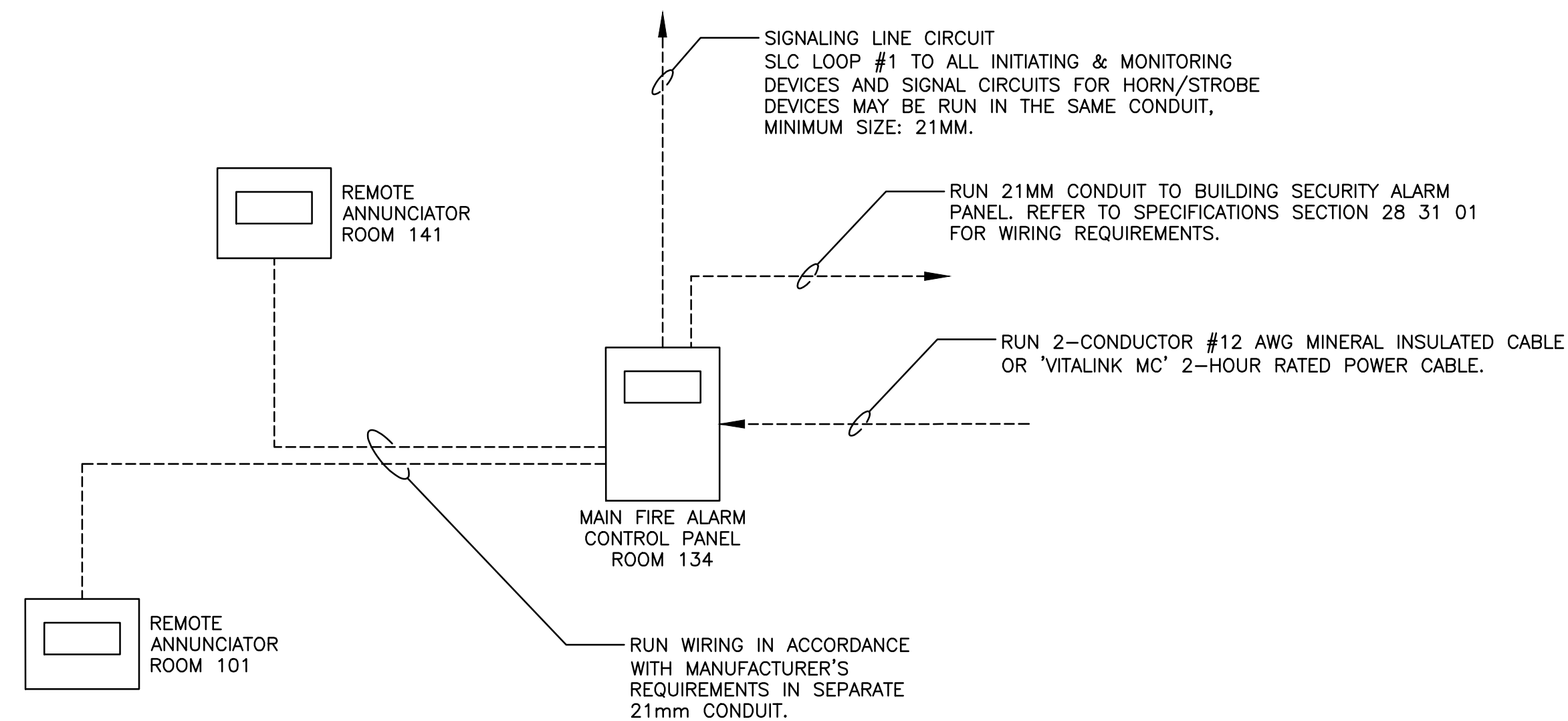
1 BOLLARD & BASE DETAIL
E7.1 N.T.S.



2 BASE ANTENNA MOUNTING DETAIL
E7.1 N.T.S.



3 PARKING PEDESTAL & BASE DETAIL
E7.1 N.T.S.



4 FIRE ALARM RISER DIAGRAM
E7.1 N.T.S.

SEPW Architecture Inc.

101 - 3775 Praeger Street, Regina, SK S4S 0A8 ph: (306) 589-2555
1210 - 1218 Kinross Street, Saskatoon, SK S1P 0A8 ph: (306) 652-4457
website: www.sepw.ca

Ritenburg & Associates Ltd.
Consulting Electrical Engineers

#200-2222 Albert Street, Regina, SK S4P 2V2
P: (306) 589-1303 F: (306) 589-1307
Email: ra@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.

NUMBER 52
PERMISSION TO CONSULT HELD BY:
DISCIPLINE SASK. REG. No. SIGNATURE
ELECTRICAL 9273 *Steve Kemp*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/ Revisión	Description/Description	Date/Date

Project title/Titre du projet

**NEW POLICE BUILDING
ONION LAKE, SASKATCHEWAN**

Approved by/Approve par

SBK

Designed by/Concept par

KAD

Drawn by/Dessiné par

RPC

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

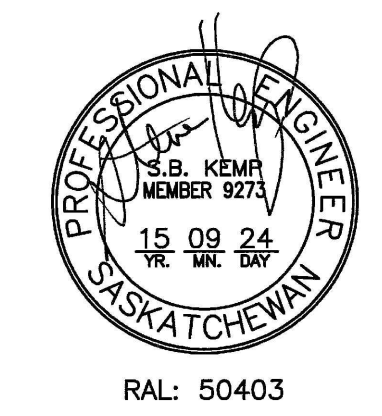
ELECTRICAL DETAILS

Project No./No. du
projet
24/2014

Sheet/Fauille
E7.1

Revision no./
La Révision
no.
0





ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

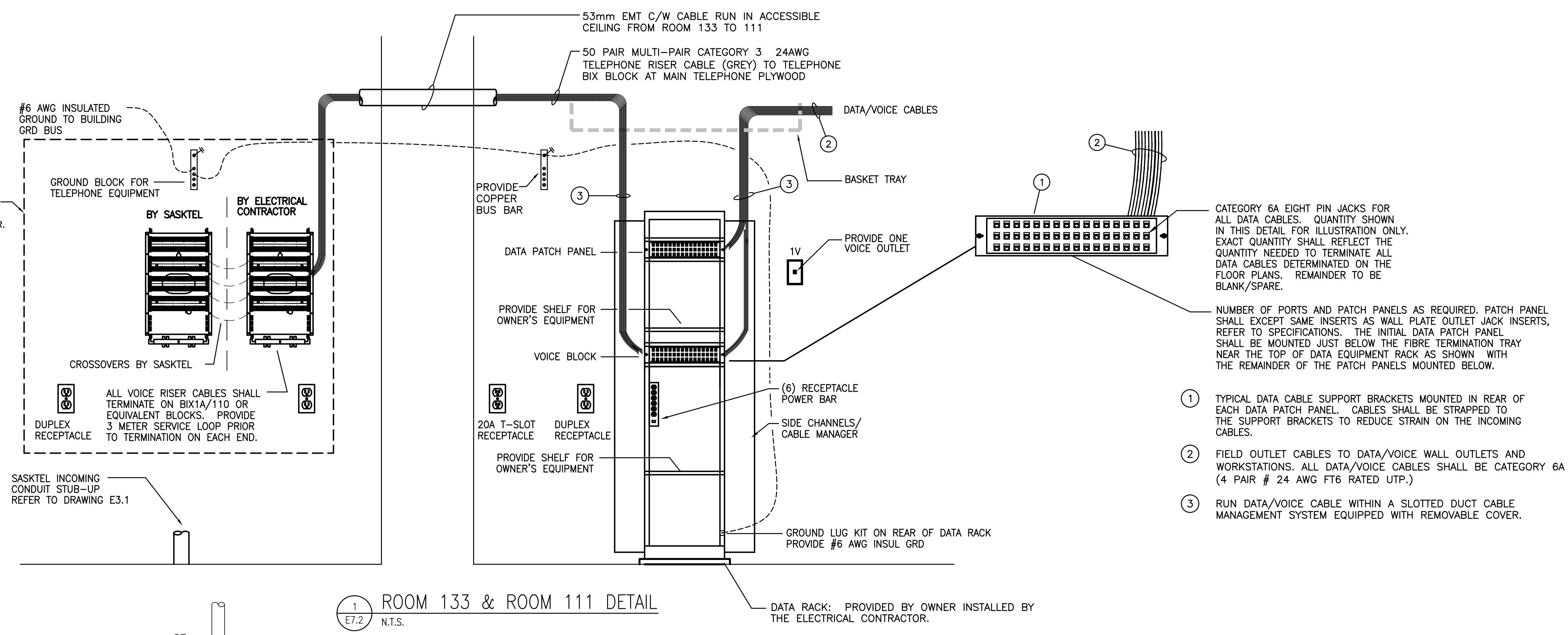
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/	Description/Description	Date/Date
Revision/		
Revision/		

Project title/Titre du projet
**NEW POLICE BUILDING
 UNION LAKE, SASKATCHEWAN**

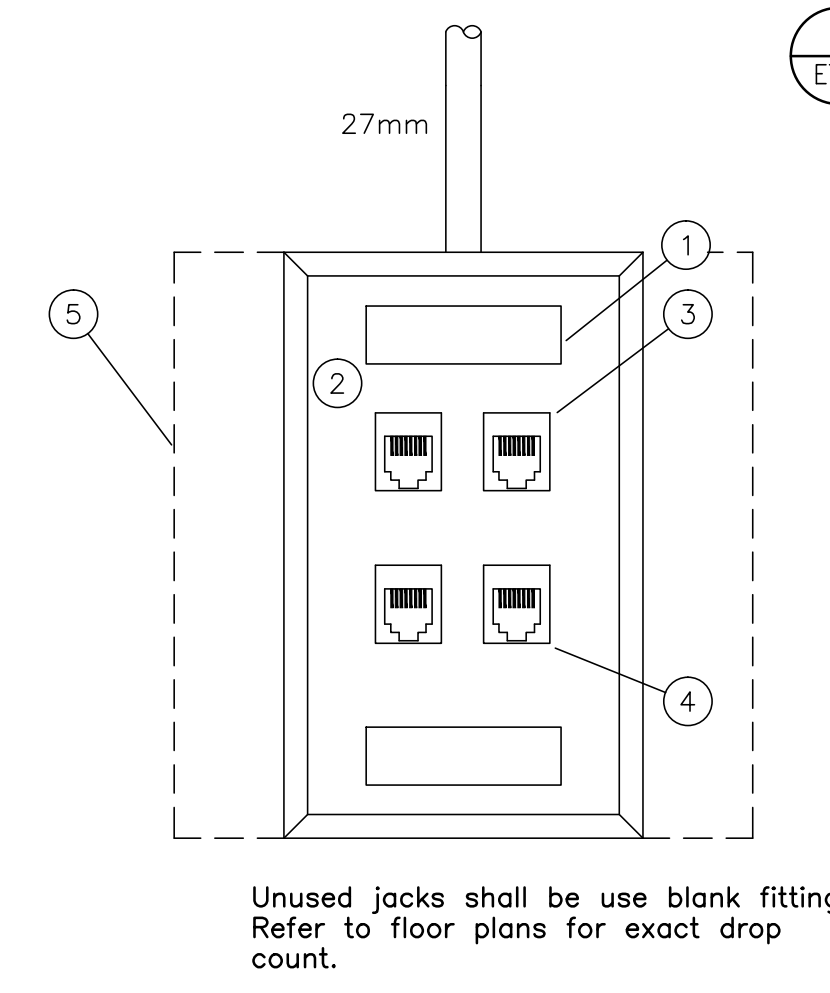
Approved by/Approve par: SBK
 Designed by/Concept par: KAD
 Drawn by/Dessine par: RPC
 Project Manager/Administrateur de Projets:

Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie

Drawing title/Titre du dessin
ELECTRICAL DETAILS



1 ROOM 133 & ROOM 111 DETAIL
 E7.2 N.T.S.



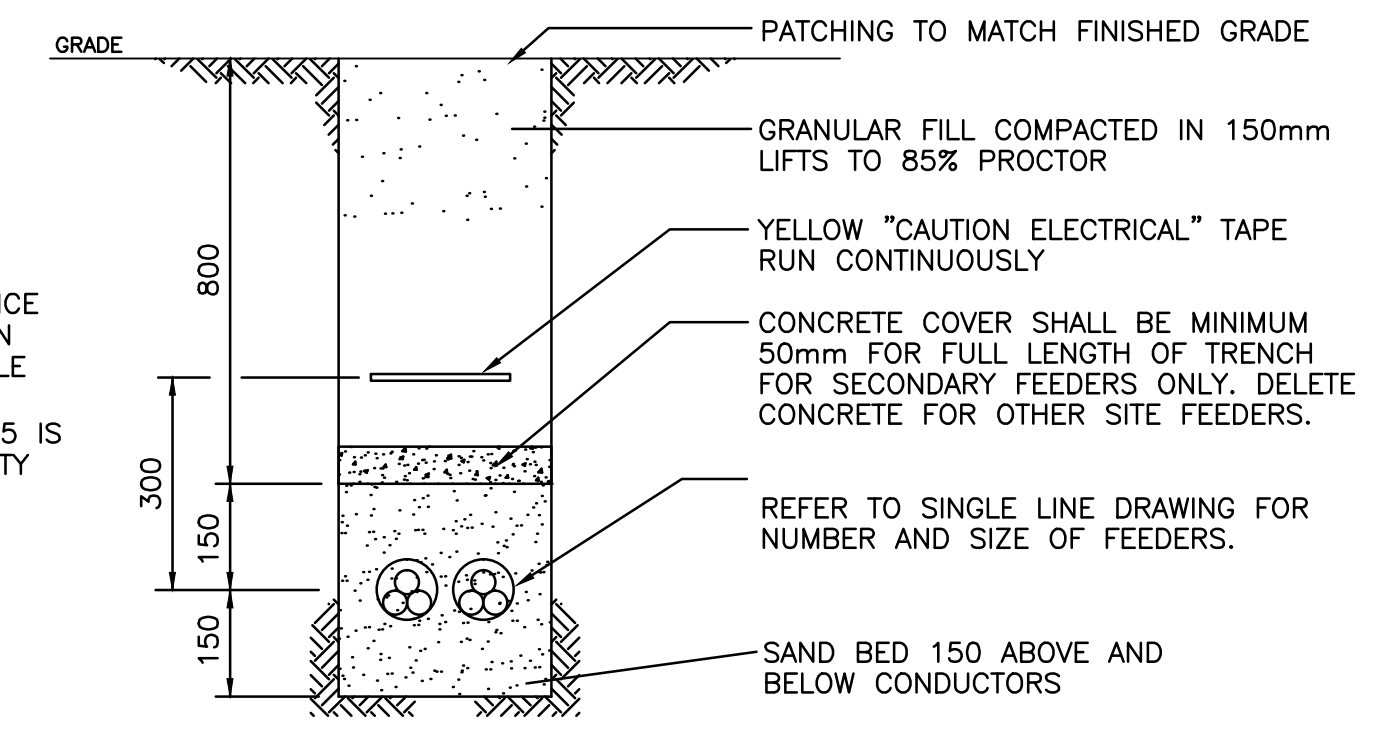
2 OUTLET DETAIL
 E7.2 N.T.S.

ITEM	DESCRIPTION	COLOUR
1	INTEGRATED LABEL	-
2	FACEPLATE	WHITE
3	RJ45 JACK (8 PIN) (CATEGORY 6A)	WHITE
4	RJ45 DATA JACK CATEGORY 6A	WHITE
5	100 x 100mm JUNCTION BOX WITH SINGLE GANG EXTENSION RING	
	BLANK PLUG	IVORY

Note:
 From each data jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.
 From each telephone jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.

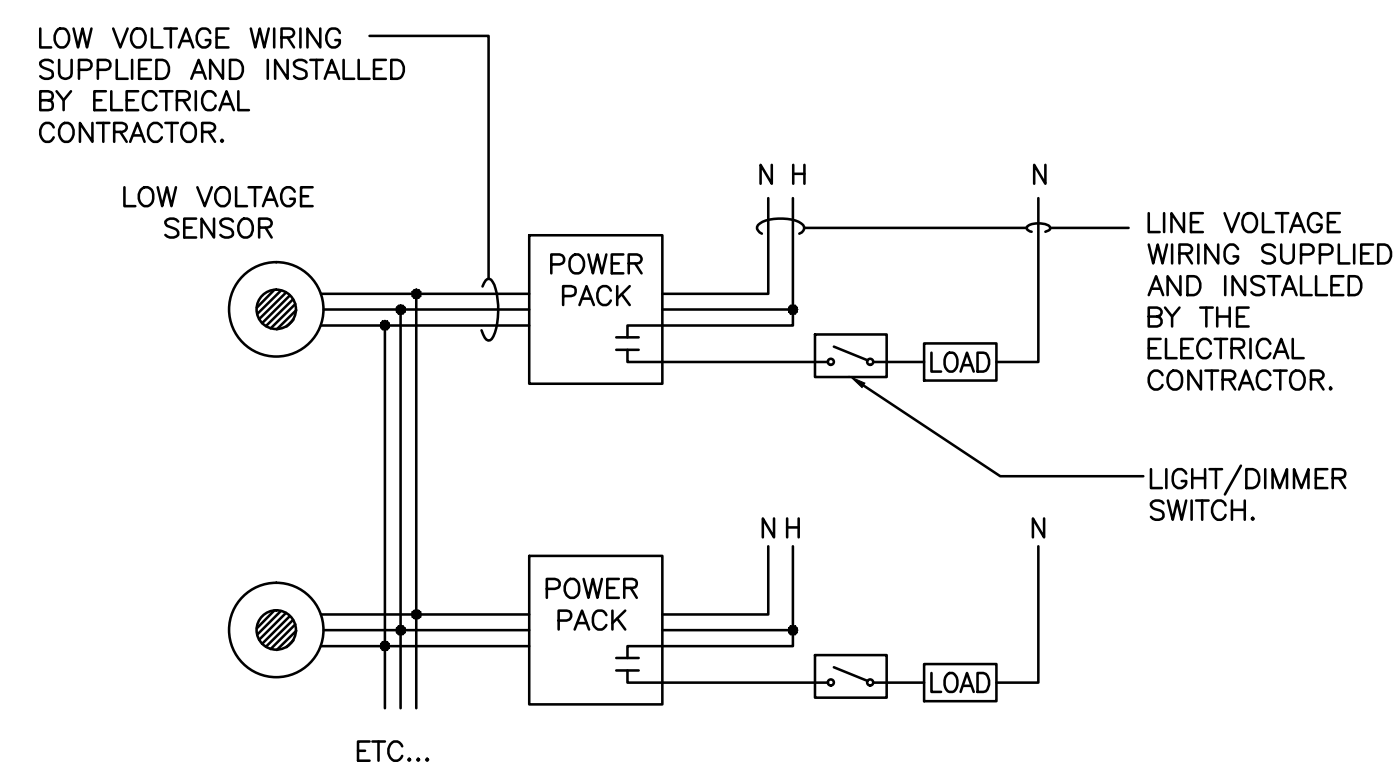
GENERAL NOTES:

- TRENCH DETAIL FOR DIRECT BURIED SERVICE CONDUCTOR SHALL COMPLY WITH CANADIAN ELECTRICAL CODE DIAGRAM B4-3 PER RULE 4-004 (1)(d). IF SPACING IS NOT ACCORDANCE WITH DIAGRAM B4-3, IEEE835 IS REQUIRED TO CONFIRM THE CABLE CAPACITY AS STATED IN RULE 4-004(1)(e)

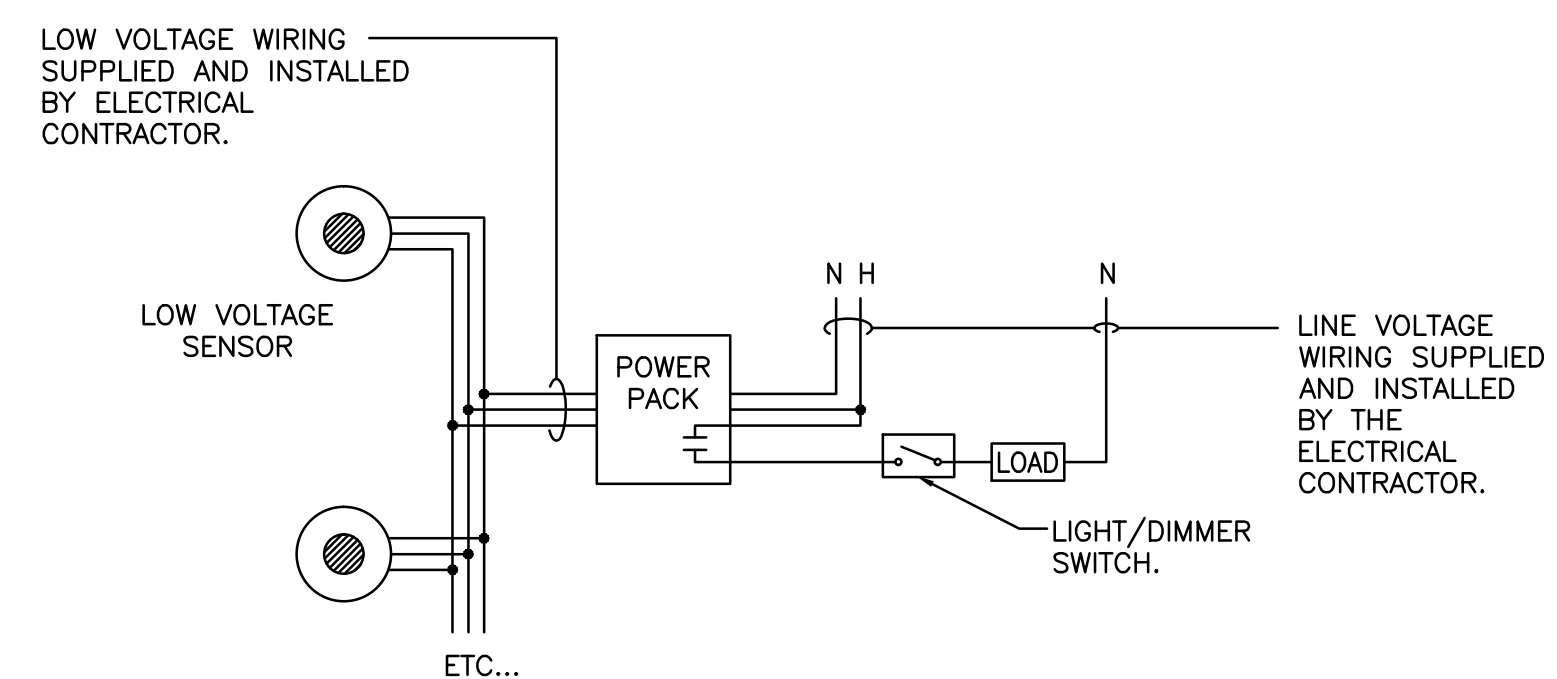


3 SECONDARY CONDUCTOR TRENCH DETAIL
 E7.2 N.T.S.

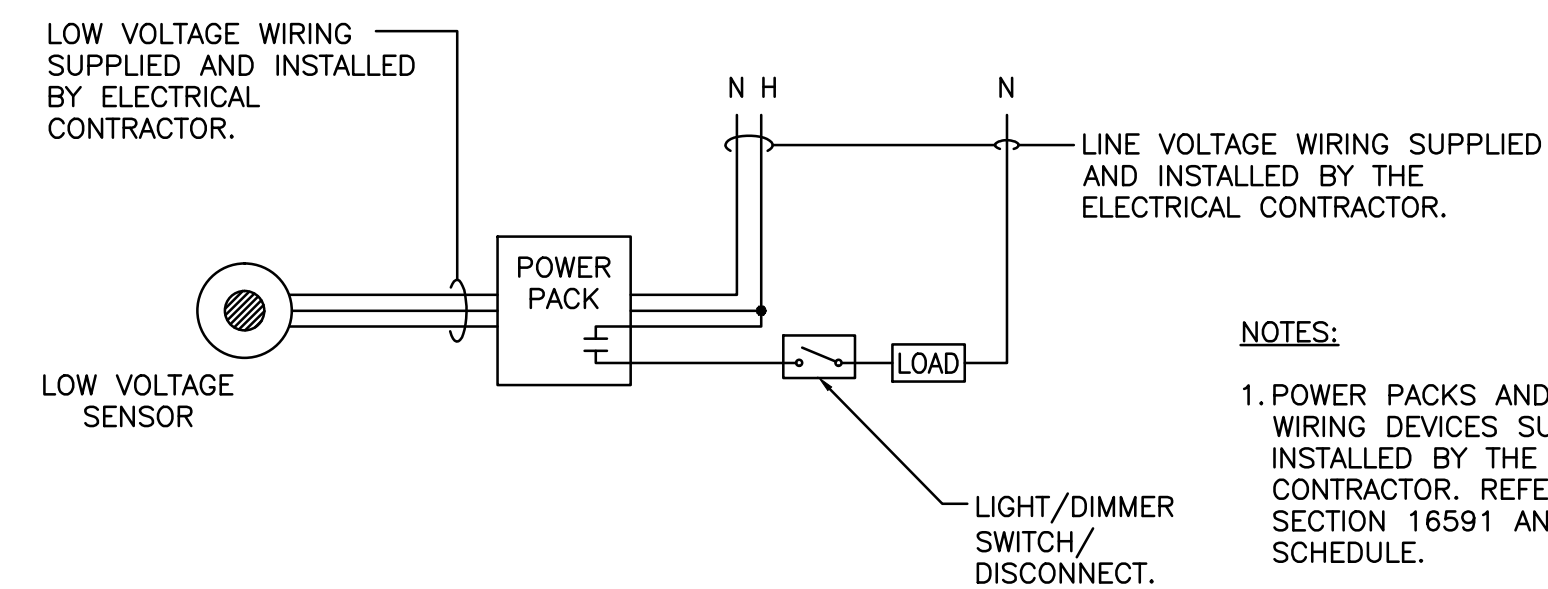
CABLE LAYOUT DETAIL FOR DIRECT BURIED SERVICE CONDUCTORS AND CABLES IN CONDUITS SHALL COMPLY WITH THE CANADIAN ELECTRICAL APPLICABLE CODE DIAGRAMS B4-1 THROUGH B4-4.



1
E7.3
TYPICAL WIRING DIAGRAM -
MULTIPLE SENSORS W/ MULTIPLE CIRCUITS
N.T.S.



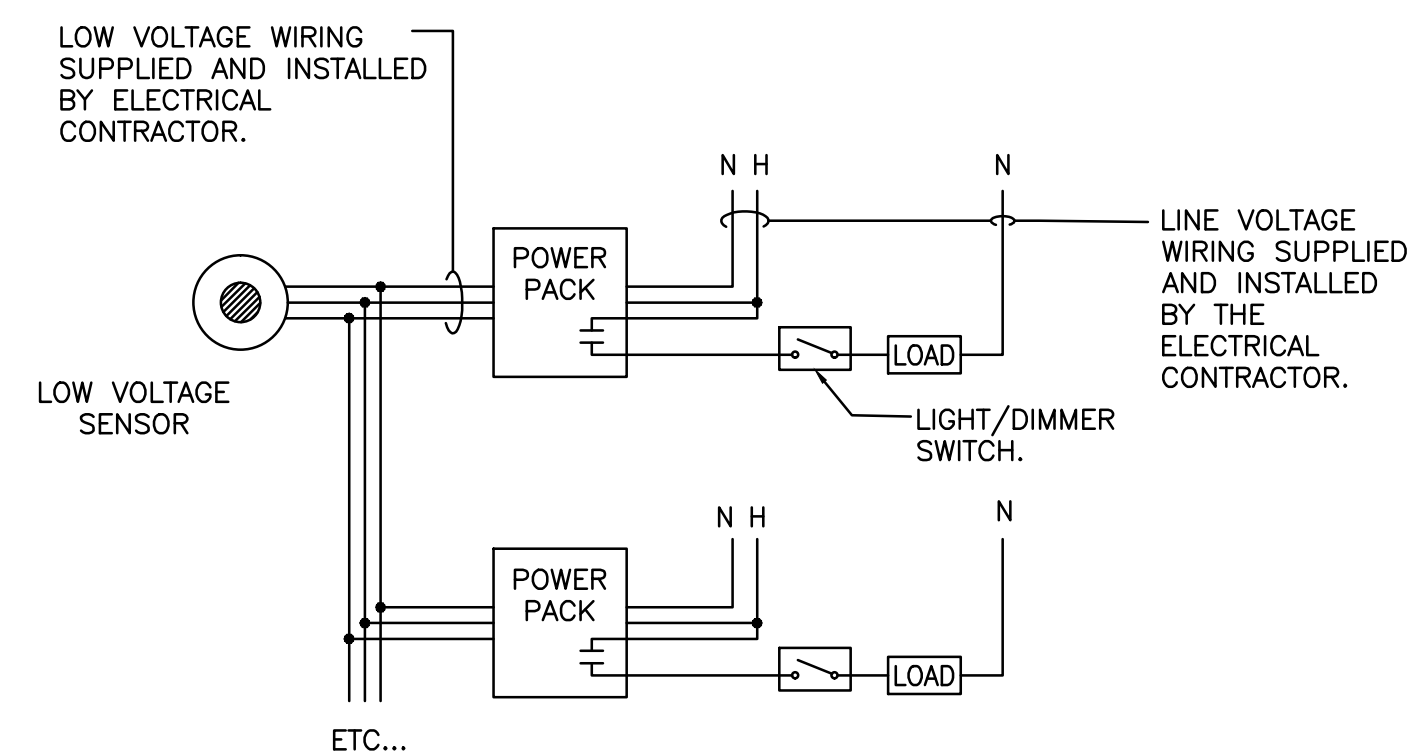
2
E7.3
TYPICAL WIRING DIAGRAM -
MULTIPLE SENSORS W/ SINGLE CIRCUIT
N.T.S.



3
E7.3
TYPICAL WIRING DIAGRAM
N.T.S.

NOTES:

1. POWER PACKS AND LOW VOLTAGE WIRING DEVICES SUPPLIED BY OWNER, INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION SECTION 16591 AND SYMBOL SCHEDULE.
2. ALL LINE VOLTAGE WIRING AND WIRING DEVICES SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES. WIRING DIAGRAMS MAY VARY DEPENDING ON ROOM LAYOUTS.
4. ALL WIRING REQUIREMENTS SHALL BE CONFIRMED WITH DEVICE SHOP DRAWINGS PRIOR TO INSTALLATION.



4
E7.3
TYPICAL WIRING DIAGRAM -
SINGLE SENSOR W/ MULTIPLE CIRCUITS
N.T.S.

SEPW Architecture Inc.

110 - 3725 Pasqua Street, Regina, SK S4S 0A8 ph: (306) 669-2255
1100 - 2118 Victoria Park, Saskatoon, SK S7N 0A8 ph: (306) 924-4457
website: www.sepw.ca

Ritenburg & Associates Ltd.
Consulting Electrical Engineers
#100-2222 Albert Street, Regina, SK S4P 2V2
P: (306) 924-1313 F: (306) 924-1307
Email: ral@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.

NUMBER 52

PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/	Description/Description	Date/Date

Client/client

Project title/Titre du projet
**NEW POLICE BUILDING
UNION LAKE, SASKATCHEWAN**

Approved by/Approve par
SBK

Designed by/Concept par
KAD

Drawn by/Dessine par
RPC

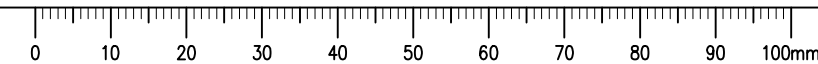
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client/client

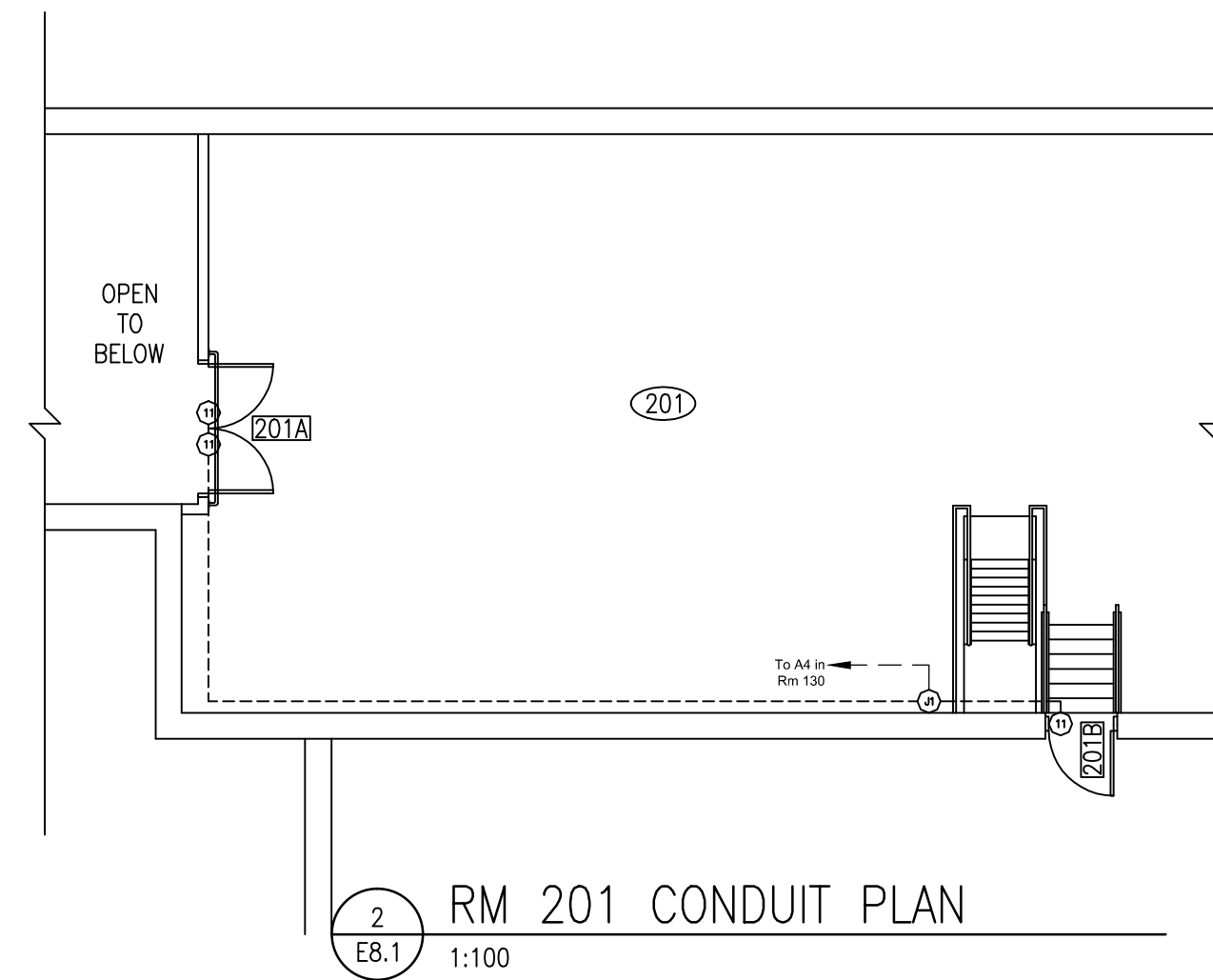
Drawing title/Titre du dessin
ELECTRICAL DETAILS

Project No./No. du projet 24/2014	Sheet/Feuille E7.3	Revision no./ La Révision no. 0
--------------------------------------	-----------------------	---------------------------------------



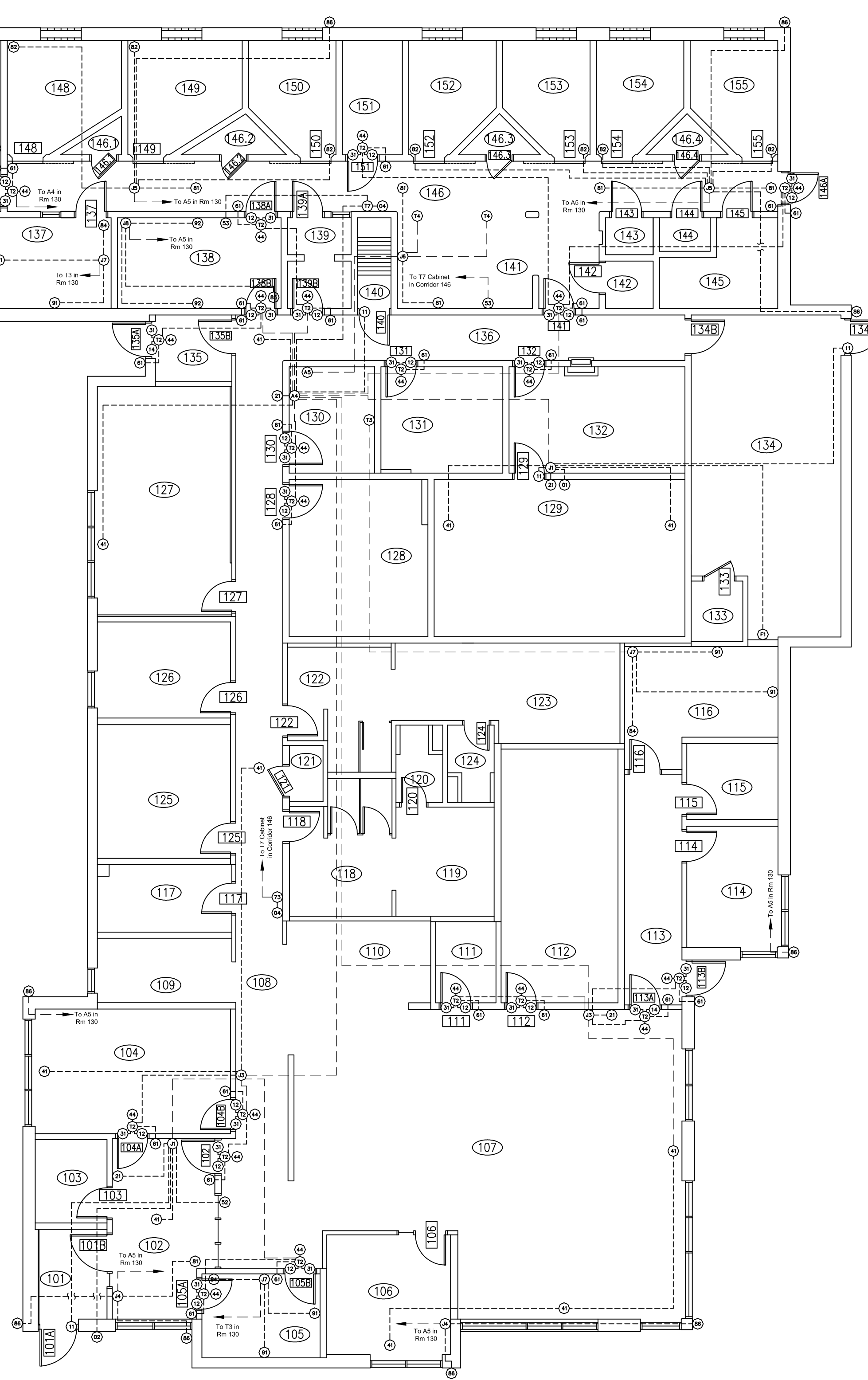


SYMBOL LEGEND
 - - - - - 13mm CONDUIT
 --- CONDUIT SIZED TO FIT NUMBER OF CABLES, UNLESS SPECIFIED OTHERWISE

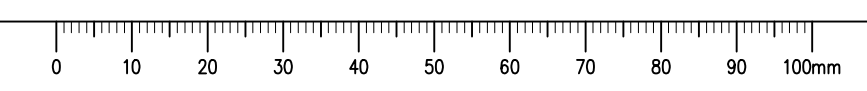


GENERAL NOTES:

1. AREA CONDUIT RUNS SHALL NOT CROSS THROUGH ROOMS 128, 129, 130, 131 AND 132. ONLY CONDUITS SERVING THESE SPACES ARE PERMITTED TO PENETRATE THE SPACE.
2. ALL CONDUIT RUNS IN THE OPEN OFFICE AREA CEILING SHALL RUN ALONG CEILING JOISTS AND PAINTED TO MATCH JOIST FINISH.
3. CONDUITS FOR OUTLETS LOCATED ALONG THE EXTERIOR WALLS OF ROOM 107 SHALL STUB UP IN WALL TO BULKHEAD CHASE AND RUN ALONG CHASE TO ACCESSIBLE CEILING SPACE.
4. ALL JUNCTION BOXES AND CONDUITS FOR ELECTRICAL ROUGH-IN IN AREAS WHERE CONCRETE CEILINGS ARE PROVIDED SHALL BE "CAST IN PLACE". COORDINATE ROUGH-IN WITH STRUCTURAL CONTRACTOR PRIOR TO THE CONCRETE POUR.
5. T4 CABINET RECEPTACLE SHALL BE FED FROM CIRCUIT A59 & T7 CABINET RECEPTACLE SHALL BE FED FROM CIRCUIT A61. REFER TO SPECIFICATIONS FOR POWER REQUIREMENTS FOR CIRCUITS A59 AND A61.



1 MAIN FLOOR CONDUIT PLAN
 E8.1 1:100



SEPW Architecture Inc.
 110 - 3725 Pasqua Street, Regina, SK S4S 0A8 ph: (306) 569-2255
 1100 - 2118 Victoria Park, Saskatoon, SK S7N 0A8 ph: (306) 924-4437
 website: www.sepw.ca

Ritenburg & Associates Ltd.
 Consulting Electrical Engineers
 500-2222 Albert Street, Regina, SK S4P 2V2
 Ph: (306) 569-1303 F: (306) 569-1307
 Email: ral@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
**NEW POLICE BUILDING
 UNION LAKE, SASKATCHEWAN**

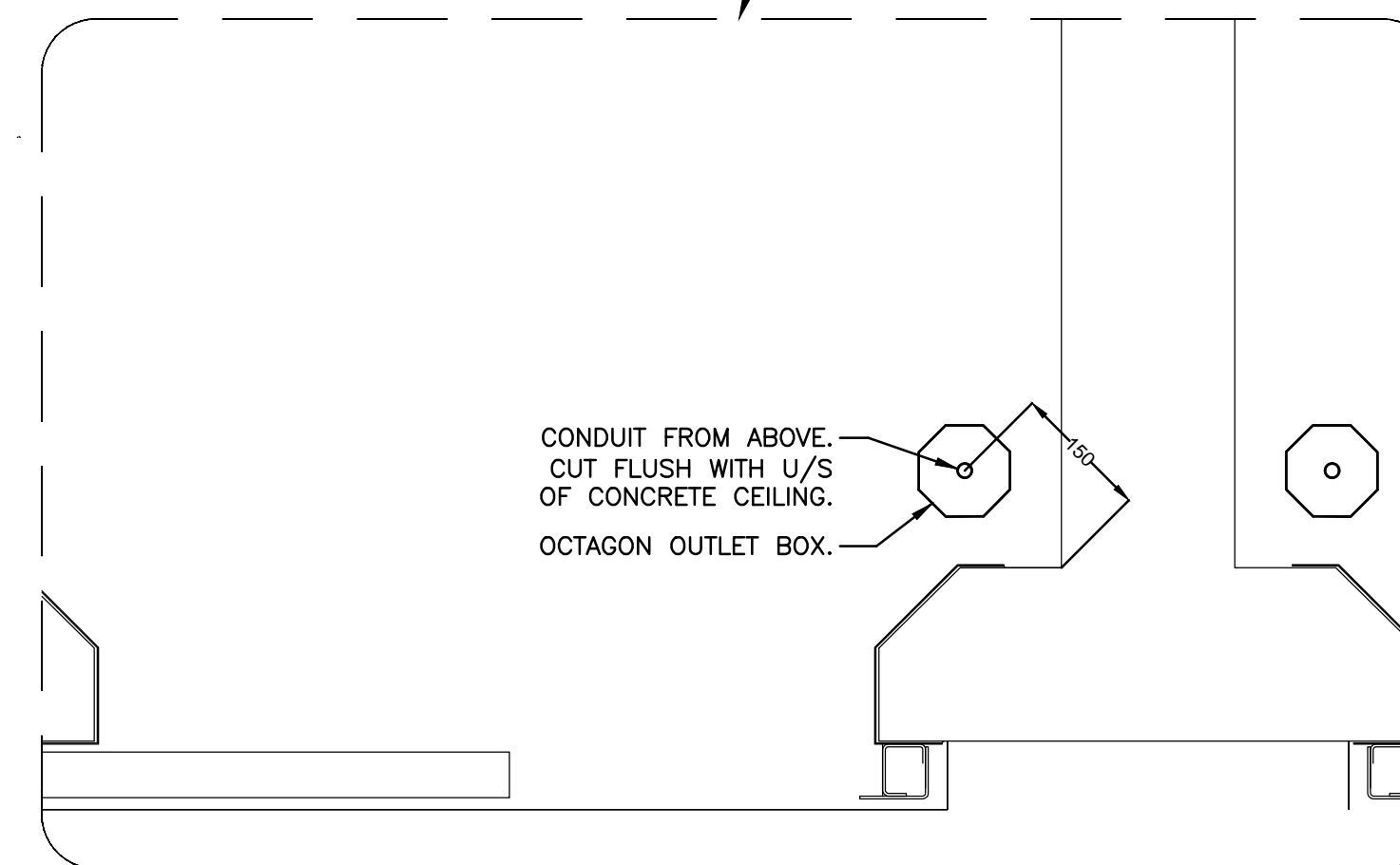
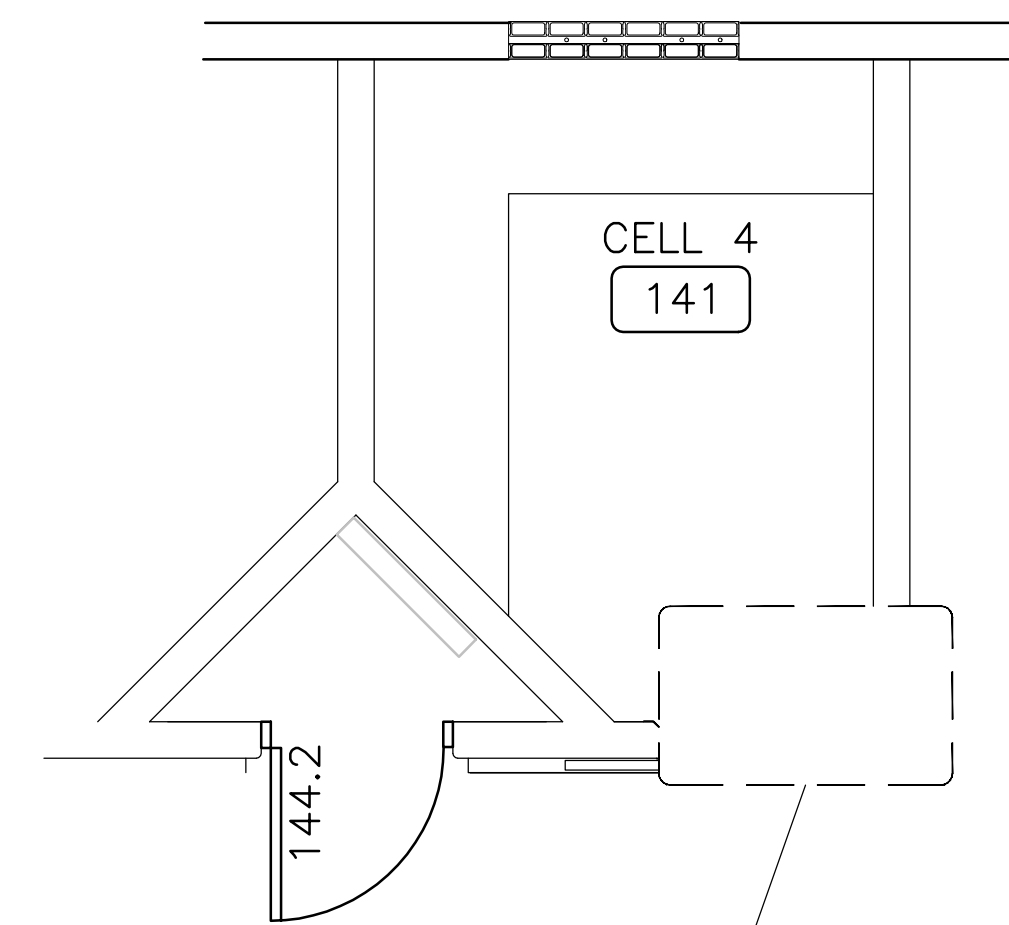
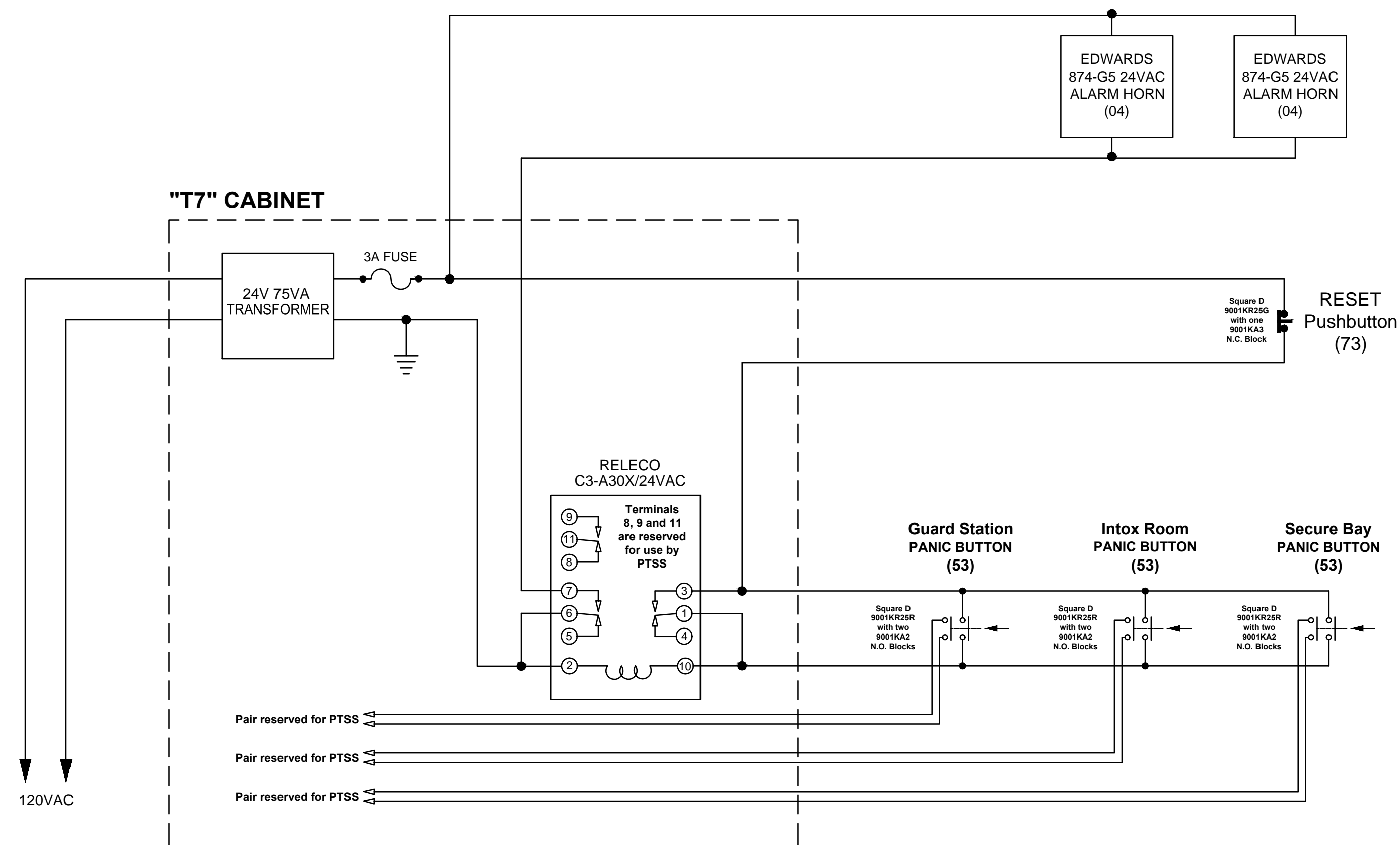
Approved by/Approve par
 SBK
 Designed by/Concept par
 KAD
 Drawn by/Dessine par
 RPC
 Project Manager/Administrateur de Projets
 Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie
 Client/client

Drawing title/Titre du dessin
**CCTV-ALARM SYSTEMS AND
 ACCESS CONTROL CONDUIT
 ROUGH-IN PLAN**

Project No./No. du projet 24/2014	Sheet/Feuille E8.1	Revision no./La Révision no. 0
--------------------------------------	-----------------------	-----------------------------------



Detail Drawing SCHEMATIC - CELL BLOCK RIOT ALARM



1 OCTAGON BOX FOR CORNER MOUNT DOME CAMERA
E8.2 N.T.S.

SEPW Architecture Inc.
 101 - 3775 Praeger Street, Regina, SK S4S 0W8 ph: (306) 589-2555
 121 - 1214 Kinross Street, Saskatoon, SK S7N 1A8 ph: (306) 652-9457
 website: www.sepw.ca

Ritenburg & Associates Ltd.
 Consulting Electrical Engineers
 #200-2222 Albert Street, Regina, SK S4P 2V2
 P: (306) 569-1303 F: (306) 569-1307
 Email: ral@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
 OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
 RITENBURG & ASSOCIATES LTD.

NUMBER 52

PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *[Signature]*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet

**NEW POLICE BUILDING
 UNION LAKE, SASKATCHEWAN**

Approved by/Approve par

SBK

Designed by/Concept par

KAD

Drawn by/Dessine par

RPC

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
 Ressources Architecturales et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

**CCTV-ALARM SYSTEMS AND
 CAMERA CORNER MOUNT**

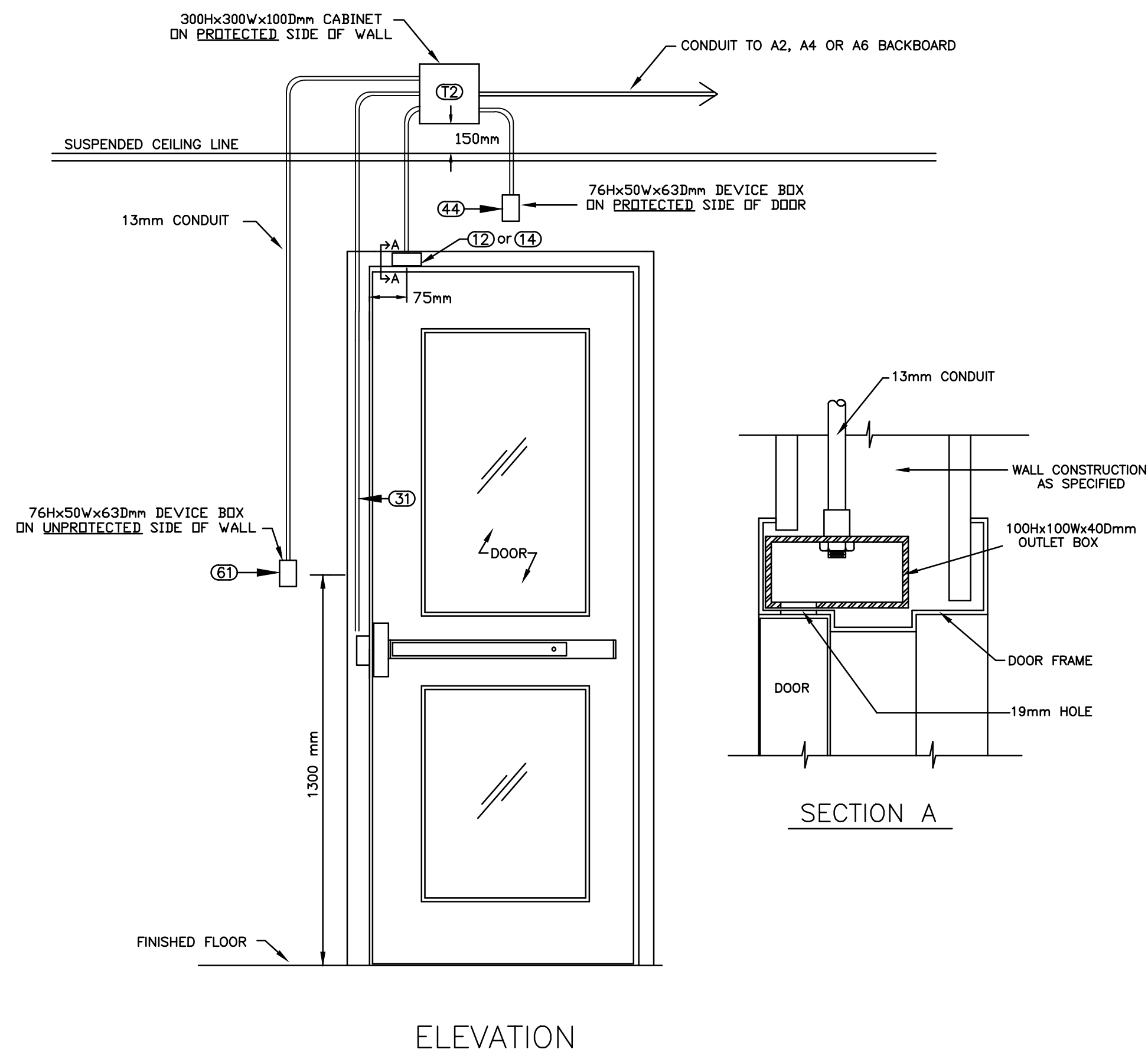
Project No./No. du projet
 24/2014

Sheet/Fauille
 8.2

Revision no./
 La Révision no.
 0



Detail Drawing
ACCESS CONTROL – ELEVATION OF SINGLE DOOR
WITH DOOR CONTACT, WALL MOUNTED READER
AND ELECTRIC STRIKE (PANIC HARDWARE)

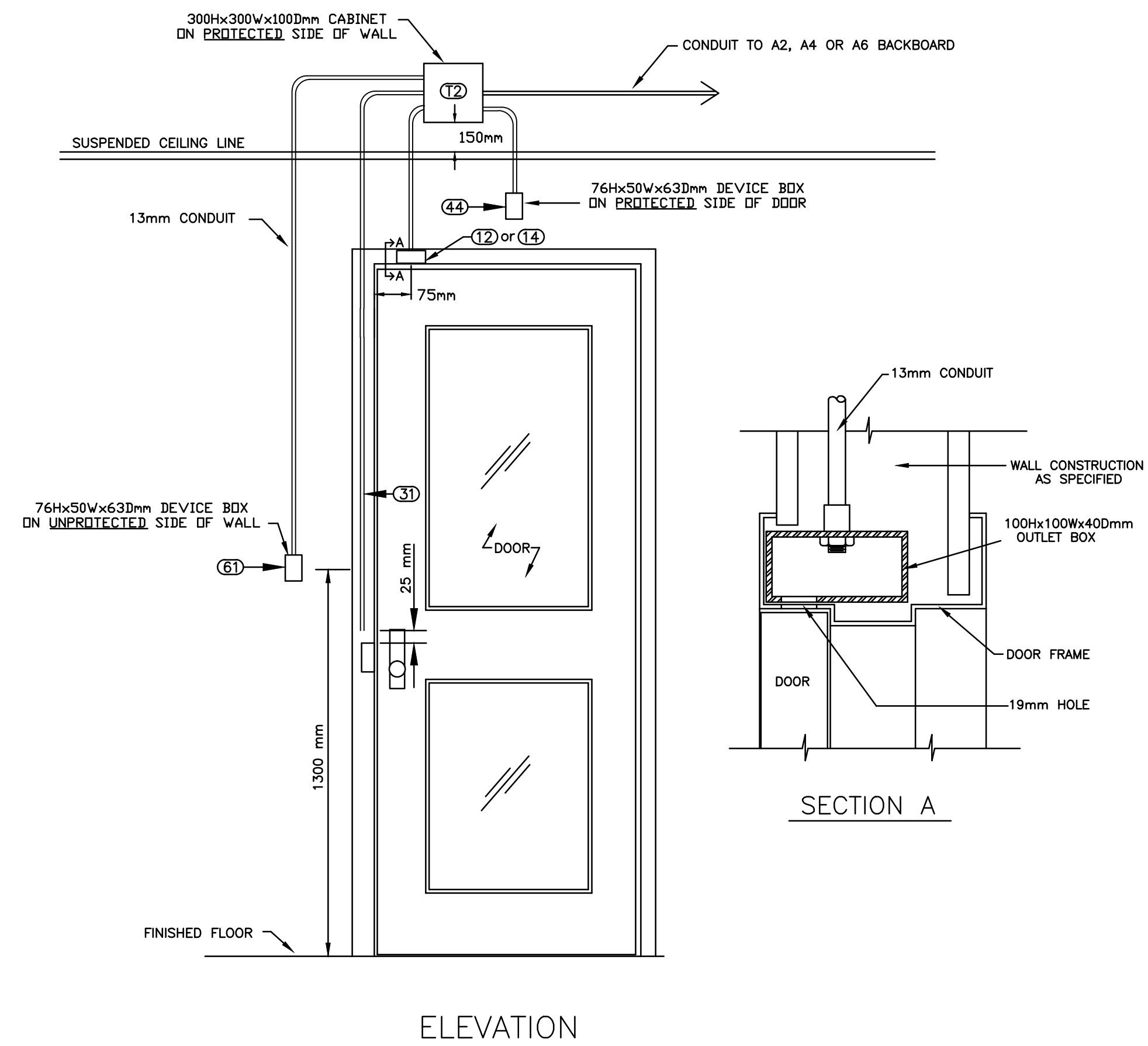


NOTES:

- CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.
- OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.
- DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

Detail Drawing
ACCESS CONTROL – ELEVATION OF SINGLE DOOR
WITH DOOR CONTACT, WALL MOUNTED READER
AND ELECTRIC STRIKE



NOTES:

- CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.
- OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.
- DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

SEP Architecture Inc.

101 - 3775 Praeger Street, Regina, SK S4S 0R8 (403) 589-2555
1210 - 1214 Kinross Street, Saskatoon, SK S7N 0A8 (306) 652-9457
Website: www.sepa.ca

Ritenburg & Associates Ltd.
Consulting Electrical Engineers
#200-2222 Albert Street, Regina, SK S4P 2V2
P: (306) 569-1303 F: (306) 569-1307
Email: ra@ritenburg.com



RAL: 50403

ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.

NUMBER 52

PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL SASK. REG. No. 9273 SIGNATURE: *Steve Kemp*

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2015/09/24
Revision/Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet

**NEW POLICE BUILDING
UNION LAKE, SASKATCHEWAN**

Approved by/Approve par
SBK

Designed by/Concept par
KAD

Drawn by/Dessine par
RPC

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

**CCTV-ALARM SYSTEMS AND
ACCESS CONTROL CONDUIT DETAILS**

Project No./No. du projet: 24/2014
Sheet/Fauille: E8.3
Revision no./La Révision no.: 0

